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1917/18

THE UNIVERSITY BULLETINS

SEVENTEENTH SERIES: NO. 6: PART 2

**THE THOMAS W. EVANS MUSEUM AND DENTAL INSTITUTE  
SCHOOL OF DENTISTRY UNIVERSITY OF PENNSYLVANIA**

(1916-1917)

Announcements for the 39th Annual Session

**1917-1918**



Founded 1740

PHILADELPHIA

PUBLISHED BY THE UNIVERSITY

BI-MONTHLY

AUGUST, 1917

*Entered at the Philadelphia, Pa., Post-Office as Second-Class Matter*

## **SPECIAL NOTICE.**

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Copies of the University Catalogue (containing detailed information concerning all the Schools) may be obtained **ONLY** upon application to the Secretary of the University of Pennsylvania, Philadelphia, Pa.

To any alumnus of the University, the Catalogue will be sent upon application on receipt of name, class and address.

The special announcement of the following divisions of the University will be sent upon application to the appropriate Dean:

THE COLLEGE, including

THE SCHOOL OF ARTS.

THE SUMMER SCHOOL.

THE COLLEGE COURSES FOR TEACHERS.

THE TOWNE SCIENTIFIC SCHOOL.

THE WHARTON SCHOOL.

THE SCHOOL OF EDUCATION.

THE GRADUATE SCHOOL.

THE LAW SCHOOL.

THE SCHOOL OF MEDICINE.

THE SCHOOL OF DENTISTRY.

THE SCHOOL OF VETERINARY MEDICINE



1917.

## JULY.

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## AUGUST.

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## SEPTEMBER.

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## JULY.

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## AUGUST.

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## OCTOBER.

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# THE UNIVERSITY.

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## General Information.

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### LOCATION.

The buildings of the University of Pennsylvania, thirty-one in number, are situated in Philadelphia, on property covering an area of over fifty-nine acres. In addition to this land the University has recently acquired from the city an adjoining tract comprising fifty-five acres, more or less. The University may be reached from the various railroad stations as follows: From the West Philadelphia station of the Pennsylvania Railroad, on foot west on Woodland Avenue, a walk of less than ten minutes; from the Philadelphia and Reading Terminal station, by the electric subway, west to Thirty-second Street, thence on foot west on Woodland Avenue; or from the Baltimore and Ohio Railroad station by a walk of one square south to Walnut Street, thence by car over the bridge west to Thirty-fourth Street. To reach the Thomas W. Evans Museum and Dental Institute take the subway car No. 34 direct to the Institute, corner Fortieth and Spruce Streets.

### APPLICATIONS FOR CATALOGUES, ETC.

Applications for copies of the general University Catalogue should be addressed to the Secretary of the University of Pennsylvania, Philadelphia, Pa.

The University also issues pamphlets relating to the College and the several Schools or to Individual Departments and often containing information not found in the general Catalogue. Inquirers interested in special branches of work only are advised to apply for these pamphlets, not for the Catalogue.

All letters of inquiry regarding the internal regulations and requirements in the College or each separate School of the University should be addressed to the Dean of that section (see *Administrative Officers*, following), and *not* to the Secretary of the University.

### ACCOMMODATIONS FOR STUDENTS.

Lodging for students to the number of nearly nine hundred is provided in the present dormitory system, which comprises an extended group of contiguous houses fronting upon three open courts. Plans of the dormitories, list of vacant rooms, prices, and other details may be obtained upon application to the Bursar of the University, Room 102, College Hall.

Board and lodging may be obtained also in the immediate vicinity of the University. Upon application at the offices of the several Deans (see *Administrative Officers*, following), lists of approved boarding houses may be seen.



# UNIVERSITY OF PENNSYLVANIA.

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## CHRONOLOGICAL TABLE.

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- 1740—"Charity School" founded.  
1749—The "Academy" established, with which the Charity School was combined.  
1753—Charter granted by Thomas and Richard Penn, incorporating "The Academy and Charitable School."  
1755—"Confirmatory Charter" granted by Thomas and Richard Penn, incorporating "The College, Academy and Charitable School."  
1765—School of Medicine founded.
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From September, 1777, to June, 1778, owing to the occupation of Philadelphia by British troops, recitations and lectures were suspended.

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- 1779—Withdrawal of the chartered rights and privileges of The College by the State Assembly, and incorporation of the "University of the State of Pennsylvania."  
1789—Restoration of its chartered rights and privileges to The College.  
1790—Law School founded (re-established in 1850).  
1791—Union of the University of the State of Pennsylvania with The College, under the title of the UNIVERSITY OF PENNSYLVANIA.  
1874—University Hospital established.  
1875—Towne Scientific School founded.  
1877—Department of Music established.  
1878—School of Dentistry founded.  
1881—Wharton School of Finance and Commerce founded.  
1882—Graduate School founded.  
1884—Veterinary School founded.  
1885—Veterinary Hospital established.  
1885—Department of Physical Education established.  
1889—Department of Archaeology established.  
1892—Laboratory of Hygiene established.

- 1892—Wistar Institute of Anatomy and Biology established.
- 1892—Saturday Courses for Teachers established.
- 1896—Houston Club organized.
- 1896—Flower Astronomical Observatory opened.
- 1904—Summer School (College) established.
- 1906—College Courses for Teachers established.
- 1910—Henry Phipps Institute transferred to the University.
- 1912—Division of the College into three departments—The College, the Towne Scientific School, and the Wharton School.
- 1912—Affiliation of the Thomas W. Evans Museum and Dental Institute and School of Dentistry University of Pennsylvania.
- 1914—School of Education established.
- 1916—Medico-Chirurgical College and Hospital merged with University.



## GENERAL SUMMARIES.

### OFFICERS OF INSTRUCTION.

The College.....	186
Towne Scientific School.....	174
Wharton School.....	71
School of Education.....	84
Graduate School.....	131
Law School.....	27
School of Medicine.....	260
"    "    Dentistry.....	93
"    "    Veterinary Medicine.....	26
Emeritus Professors.....	7
	1,059
Duplications.....	332
	727
Total.....	

### STUDENTS.

The College.....	2,753
Towne Scientific School.....	830
Wharton School.....	2,825
School of Education.....	399
Graduate School.....	722
Law School.....	207
School of Medicine.....	606
"    "    Dentistry.....	808
Dental Graduate School.....	13
School of Veterinary Medicine.....	104
	9,267
Duplications (estimated).....	340
	8,927
Total.....	

### GEOGRAPHICAL DISTRIBUTION.

The Student List (gross figures) includes 3551 from Philadelphia; 2693 from Pennsylvania, outside of Philadelphia; 552 from New York; 820 from New Jersey; 143 from Ohio; 84 from Connecticut; 80 from Massachusetts; 109 from Maryland; 68 from Delaware; 59 from District of Columbia; 19 from Alabama; 56 from Indiana; 36 from California; 46 from Illinois; 53 from Iowa; 25 from Maine; 20 from Michigan; 34 from Minnesota; 23 from Georgia; 39 from Missouri; 39 from North Carolina; 16 from Rhode Island; 22 from Tennessee; 25 from Texas; 56 from Virginia; 29 from Washington; 37 from West Virginia; 24 from Wisconsin; 25 from Kentucky; 9 from Vermont; in addition to other state returns. There are 72 from European and adjacent countries, 33 from South America, including Argentina, Brazil, Colombia, Ecuador and Peru; 8 from Australia; 16 from Canada; 13 from Central America; 38 from China; 9 from Japan, and 4 from Mexico.

**PROVOST:**

EDGAR FAHS SMITH,  
President *pro tempore* of the Trustees.

**VICE-PROVOST:**

JOSIAH HARMAR PENNIMAN, PH.D., LL.D.

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**CORPORATION.**

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**THE TRUSTEES OF THE UNIVERSITY OF  
PENNSYLVANIA.**

THE GOVERNOR OF PENNSYLVANIA:

President *ex-officio*.

**ELECTED.**

- 1876. CHARLES CUSTIS HARRISON, LL.D.
- 1880. WHARTON BARKER.
- 1896. MORRIS JAMES LEWIS, PH.D., M.D.
- 1896. JOSEPH GEORGE ROSENGARTEN, LL.D.
- 1896. RANDAL MORGAN.
- 1898. SAMUEL FREDERIC HOUSTON.
- 1901. JOSEPH LEVERING JONES, LL.D.
- 1903. ROBERT GRIER LE CONTE, M.D.
- 1903. JOSHUA BERTRAM LIPPINCOTT.
- 1905. ARTHUR LATHAM CHURCH.
- 1906. GEORGE HARRISON FRAZIER.
- 1910. JOHN CADWALADER, LL.D.
- 1910. CHARLES LOUIS BORIE, JR.
- 1910. LOUIS CHILDS MADEIRA.
- 1911. EDWARD TOWNSEND STOTESBURY.
- 1911. EFFINGHAM BUCKLEY MORRIS.
- 1911. GEORGE WHARTON PEPPER, D.C.L., LL.D.
- 1911. SAMUEL GIBSON DIXON, M.D., Sc.D., LL.D.
- 1911. MORRIS LEWIS CLOTHIER, LL.D.
- 1911. HON. JOHN CROMWELL BELL, LL.D.
- 1911. RICHARD ALEX. FULLERTON PENROSE, JR., PH.D.
- 1916. WILLIAM AUGUSTUS REDDING.

SECRETARY OF THE CORPORATION,  
EDWARD ROBINS, A.M.

## TRUSTEES OF THE THOMAS W. EVANS MUSEUM AND INSTITUTE SOCIETY.

### OFFICERS.

*President*, JOHN WEAVER.

*Vice-President*, J. LEVERING JONES.

*Treasurer*, FRANCIS B. REEVES.

*Assistant Treasurer*, WM. H. HUTT, JR.

*Secretary*, HENRY RAINEY.

### TRUSTEES.

1898. J. LEVERING JONES.

1898. EDWARD MORRELL.

1904. JOHN WEAVER.

1906. GEORGE W. NORRIS.

1906. FRANCIS B. REEVES.

1910. JOHN CADWALADER.

1910. FRANCIS S. McILHENNY.

1910. FRANK P. PRICHARD.

1913. C. EMORY McMICHAEL.

1913. EDGAR F. SMITH.

1915. JOHN GRIBBEL.

1916. DIMNER BEEBER.

1917. EDWARD B. ROBINETTE.

1917. J. RUTHERFORD McALLISTER.

1917. EDWARD C. KIRK.

## ADMINISTRATIVE OFFICERS.

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### OF THE CORPORATION.

*Provost*—EDGAR FAHS SMITH.

Office in the John Harrison Laboratory of Chemistry, Thirty-fourth and Spruce Streets.

*Vice-Provost*—JOSIAH H. PENNIMAN, PH.D., LL.D.

Office, 104 College Hall.

*Secretary*—EDWARD ROBINS, A.M.

Office, 4 Law School Building.

*Treasurer*—WILLIAM H. HUTT, JR.

Office, 400 Chestnut Street.

*Recorder*—GEORGE E. NITZSCHE, LL.B.

Office, Houston Hall.

*Bursar*—WILLIAM O. MILLER, A.B.

Office, 102 College Hall. Office hours, 9 A. M. to 5 P. M., daily.  
The Bursar's office is open from 8.45 A. M. to 5 P. M. Saturdays,  
8.45 A. M. to 1 P. M.

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### DEANS OF THE FACULTIES.

*Dean of the College Faculty*—ARTHUR HOBSON QUINN, PH.D.

Office, 103 College Hall, Woodland Avenue. Office hours, 9 A. M. to 12 M., daily.

*Dean of the Towne Scientific School Faculty*—JOHN FRAZER, A.M., PH.D.

Office, Engineering Building. Office hours, 9 A. M. to 12 M., and 3 P. M. to 4 P. M., daily.

*Dean of the Wharton School Faculty*—WILLIAM MCCLELLAN, E.E., PH.D.

Office, Logan Hall, Thirty-sixth Street below Woodland Avenue.

*Dean of the School of Education*—FRANK P. GRAVES, PH.D., LITT.D., LL.D.

Office, 108 College Hall. Office hours, 11 A. M. to 12 M., daily, and 4 P. M. to 5 P. M., except Friday and Saturday.



*Dean of the Graduate School Faculty*—HERMAN V. AMES, A.M., PH.D.  
Office, 105 College Hall, Woodland Avenue. Office hours, 9 A. M. to 12 M., daily.

*Dean of the Law Faculty*—WILLIAM E. MIKELL, B.S., LL.M.  
Office in the Law School Building, Thirty-fourth and Chestnut Streets. Office hours, Wednesdays, Thursdays and Fridays, 12 to 1 P. M.; Mondays and Tuesdays, 12.15 to 1 P. M.

*Dean of the Medical Faculty*—WILLIAM PEPPER, A.B., M.D.  
The Dean's Office (in the Medical Laboratories, Hamilton Walk) is open from 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 1 P. M.

*Dean of the Dental Faculty*—  
Office, Thomas W. Evans Dental Institute, Fortieth and Spruce Streets. Office hours, 9 A. M. to 1 P. M., daily.

*Dean of the Faculty of Veterinary Medicine*—LOUIS A. KLEIN, V.M.D.  
Office, Veterinary Building, Thirty-ninth Street and Woodland Avenue. Office open daily from 9 A. M. to 5 P. M., except Saturday; on Saturday, 9 A. M. to 1 P. M.

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#### DEPARTMENT OF PHYSICAL EDUCATION.

*Director*—R. TAIT MCKENZIE, A.B., M.D.  
Office in the Gymnasium, Thirty-third and Spruce Streets. Office hours, 3 P. M. to 6 P. M., daily, except Saturdays.

*Students' Physicians*—The Trustees have appointed DRS. GEORGE WILSON, J. C. BIRDSALL and S. HAROLD BOYD to act as students' physicians, under the guidance of DR. JOHN H. MUSSER, JR., Physician-in-Chief of the Medical Dispensary of the University Hospital. A Students' Dispensary is conducted daily at the University Hospital.

*Ophthalmologist*—WILLIAM C. POSEY, A.B., M.D., 2049 Chestnut Street.  
Office hours, from 8.30 A. M. to 1 P. M., daily. Telephone connection.

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#### OTHER DEPARTMENTS.

*Director of Admissions*—GEORGE GAILEY CHAMBERS, PH.D.  
(For the College, Towne Scientific School, Wharton School and School of Education.)  
Office, Room 113, College Hall.

*Assistant Directors*—GEORGE WILLIAM MCCLELLAND, A.M., PH.D.,  
FREDERIC W. BREIMEIER, A.M.

*Librarian of the University*—MORRIS JASTROW, JR., PH.D., LL.D.  
Office in the Library, Thirty-fourth Street below Walnut.

*Assistant Librarian*—KATHARINE S. LEIPER.

The Library is open daily during term-time (except holidays), from 8.15 A. M. to 10 P. M.; Sundays, from 2 P. M. to 6 P. M. During the summer vacation daily (except Sundays and holidays), from 9 A. M. to 5 P. M.; during the session of the Summer School daily (except holidays), from 8.30 A. M. to 10 P. M.; Sundays, from 2 P. M. to 6 P. M.

*Librarian of the Biddle Law Library*—MRS. MARGARET C. KLINGELSMITH, LL.B., LL.M.

Office in the Law School Building, Thirty-fourth and Chestnut Streets. Office hours, 10 A. M. to 5 P. M., daily.

*Director of the Summer School*—OEWN L. SHINN, PH.D.

Office, College Hall.

*Superintendent of the University Hospital*—MARION E. SMITH.

The Hospital is on Spruce Street above Thirty-fourth. Communications concerning the Hospital and the admission of patients should be addressed to the Superintendent.

*Director of the William Pepper Clinical Laboratory*—HERBERT FOX, M.D.

Office in the Laboratory. Office hours, 2 P. M. to 3 P. M., daily.

The Laboratory is on Spruce Street below Thirty-sixth, adjoining the Hospital.

*Director of the Wistar Institute*—MILTON J. GREENMAN, PH.B., M.D., ScD.

Office in the Institute, Thirty-sixth Street and Woodland Avenue. Office hours, from 3 to 5 P. M., daily, except Saturdays.

*Director of the John Harrison Laboratory of Chemistry*—EDGAR F. SMITH, PH.D., CHEM.D., Sc.D., L.H.D., LL.D.

Office in the Laboratory, Thirty-fourth and Spruce Streets.

*Director of the Laboratory of Hygiene*—ALEXANDER C. ABBOTT, M.D., DR.P.H., Sc.D.

Office in the Laboratory, Thirty-fourth Street below Walnut.

*First Assistant in the Laboratory of Hygiene*—DAVID HENDRICKS BERGEY, A.M., M.D., DR.P.H.

Office in the Laboratory. Office hours, 9 A. M. to 12 M., and 2 P. M. to 5 P. M., daily.

*Director of the Randal Morgan Laboratory of Physics*—ARTHUR W. GOODSPEED, PH.D.

Office in the Laboratory, Thirty-fourth Street below Walnut.

*Director of the Psychological Laboratory and Clinic*—LIGHTNER WITMER, PH.D.

Office in the Laboratory, College Hall.

*Director of the Light and Heat Station*—SAMUEL B. LOCKE.

*Superintendent of Buildings and Grounds*—WILLIAM R. JONES, M.E.  
Office, Room 323, Engineering Building.

*Director of the Zoölogical Laboratory*—CLARENCE E. MCCLUNG, PH.G.,  
A.M., PH.D.

The Laboratory is on Hamilton Walk.

*Director of the Robert Hare Chemical Laboratory*—JOHN MARSHALL,  
M.D., NAT. SC.D., LL.D.

*Director of the Botanic Garden*—JOHN M. MACFARLANE, D.SC.

The Garden is adjacent to the Botanical Laboratory, on Hamilton Walk and is open daily from 7 A. M. to sunset. The greenhouses are open from 8 A. M. to 5 P. M.

*Director of the Flower Astronomical Observatory*—ERIC DOOLITTLE, C.E.  
The Observatory is situated at Highland Park Station, one mile beyond the Sixty-ninth Street Terminal Station of the Market Street elevated electric road.

*Purchasing Agent*—BOULTON EARNSHAW.

Office, Room 320, Zoölogical Laboratory. Office hours, 9 A. M. to 4.30 P. M.

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#### HENRY PHIPPS INSTITUTE.

*Executive Director*—CHARLES J. HATFIELD, M.D.

*Director of the Clinical and Sociological Departments*—H. R. M. LANDIS,  
M.D.

*Director of the Laboratory*—PAUL A. LEWIS, M.D.

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#### UNIVERSITY MUSEUM.

The Museum contains the archaeological and ethnological collections of the University, and is situated on Spruce Street below Thirty-fourth, opposite Franklin Field. The collections are open to visitors daily from 10 A. M. to 5 P. M.; on Sundays, from 2 P. M. to 6 P. M.  
*Director*, GEORGE B. GORDON, SC.D.

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#### UNIVERSITY OF PENNSYLVANIA CABLE ADDRESS:

"Sylpenn," Philadelphia.

## THE THOMAS W. EVANS DENTAL INSTITUTE.

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By a formal agreement executed June 15, 1912, by the Trustees of the University of Pennsylvania and The Thomas W. Evans Museum and Institute Society, a co-operative affiliation was established between the respective corporations whereby the resources of both are utilized in carrying out the intent and purposes expressed in the will of the late Dr. Thomas W. Evans, in which he directed that the residue of his estate be applied to the creation of a dental educational institution to be located at the northwest corner of Spruce and Fortieth Streets, in the City of Philadelphia, and to be carried on "as such institutions of learning are now conducted in Philadelphia and not inferior to any already established." The new Dental Institute, which is the materialization of Dr. Evans' bequest and which houses the School of Dentistry of the University of Pennsylvania, occupies the lot at the northwest corner of Fortieth and Spruce Streets.

The building is 242 feet long by 161 feet wide. The style of architecture is collegiate Gothic, of the time of Henry VIII, and in keeping with the architecture of the law school, dormitories, zoölogical, medical, engineering and other recently constructed buildings of the University. The material is of Indiana limestone and hard-burnt red brick. The building is in the shape of the letter H, and consists of three stories over a high basement.

Of the several interesting features of the building, two are the Museum proper and the square tower, which is built at the main entrance at the center of the Spruce Street wing. The tower is 38 feet square, rising 84 feet. In the center of the tower, beginning at the second story and reaching almost to the top of the third floor, is a large window, which lights the library, on the second floor.

The Evans Museum, which occupies the east hall of the Spruce Street wing, is as nearly fire and burglar-proof as modern science can make it.

Another of the important features of the building is the large operative clinic, in the north wing on the second floor. This occupies the entire wing and contains 135 especially designed operating chairs, with instrument cabinets and gas, electricity, water and compressed-air service, at each chair. On the north side is a wall of glass, so far as is possible in keeping with the strength of the building. The clinic



is two stories high, 30 feet in all, and the glass in the wall is turned over the roof a distance of about 10 feet, giving all the daylight possible.

In the scheme of educational work of the Institute provision has been made for undergraduate training for the dental degree as required for legal qualification for the practice of dentistry, post-graduate instruction on the elective system and opportunities and facilities for scientific research in dental subjects.

The laboratories of bacteriology, of histology and of pharmacology are commodious and well lighted and are equipped each with appropriate installations of microscopes and accessory apparatus of the highest grade obtainable for practical laboratory teaching.

The Institute is equipped with complete outfits of photographic apparatus for the recording of cases of practical educational value, also a radiographic department, rooms for the prosecution of individual scientific research work, and every modern convenience for facilitating the work of instruction as well as the conduct of the extensive clinical service of the Institute in its several phases of Oral Surgery, Operative and Prosthetic Dentistry and their various subdivisions.

The Institute offers special facilities for the prosecution of individual scientific research work in subjects related to dental science and art. Fully equipped private laboratories are provided where those fitted for pursuing research work may prosecute special studies of that character under the most favorable circumstances and with the general facilities of the Institute and the technical advice of its staff of instructors at their service.

The department of graduate instruction occupies an extensive section of the building and is especially equipped with the most modern chairs and appliances for the conduct of its educational work. Compressed air, electrical service, gas, hot and cold water are supplied to all of the laboratories and to the individual work tables, etc. Neither time, care nor expense has been spared in making the Institute in its construction and equipment and in its educational plan and staff the most extensive and efficient dental educational institution in existence.

In consequence of the affiliated interests of the two institutions, the students of the Evans Institute are accorded all of the advantages of University relationship, including the resources of the University for furnishing instruction in the fundamental medical and dental subjects, its social, educational and athletic advantages.

The students of the Dental School of the University likewise enjoy the advantages of the new building erected by the Evans Institute Society, and its material resources for the conduct, maintenance and improvement of the same.

## SCHOOL OF DENTISTRY.

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### FACULTY.

EDGAR F. SMITH, PROVOST.

JOSIAH H. PENNIMAN, PH.D., LL.D., VICE-PROVOST.

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\*EDWIN T. DARBY, D.D.S., M.D., LL.D., Professor of Operative Dentistry.

EDWARD T. REICHERT, M.D., Professor of Physiology.

GEORGE A. PIERSOL, M.D., Sc.D., Professor of Anatomy.

JOHN MARSHALL, M.D., NAT.Sc.D., LL.D., Professor of Chemistry and Toxicology.

\*EDWARD C. KIRK, D.D.S., Sc.D., LL.D., Professor of Dental Pathology and Therapeutics, and DEAN OF THE FACULTY.

\*MATTHEW H. CRYER, D.D.S., M.D., Professor of Oral Surgery.

CHARLES R. TURNER, D.D.S., M.D., Professor of Mechanical Dentistry and Metallurgy.

HERMANN PRINZ, A.M., D.D.S., M.D., Professor of Materia Medica and Therapeutics.

NATHANIEL GILDERSLEEVE, M.D., Professor of Microbiology and Bacterio-Pathology.

ARTHUR HOPEWELL-SMITH, L.D.S., ENG., M.R.C.S., ENG., L.R.C.P., LOND., Professor of Dental Histology, Histopathology and Comparative Odontology.

CHARLES C. VOELKER, D.D.S., Professor of Clinical Dentistry.

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R. HAMILL D. SWING, D.D.S., Assistant Professor of Oral Surgery and Anesthesia.

A. DEWITT GRITMAN, D.D.S., Assistant Professor of Mechanical Dentistry.

\*FREDERIC A. PEESO, D.D.S., Assistant Professor of Crown-and-Bridge Work.

LEON ALONZO RYAN, PH.D., Assistant Professor of Chemistry and Toxicology.

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\* Resigned.

- FREDERICK W. ALLEN, D.D.S., Assistant Professor of Operative Technic.
- ROBERT J. SEYMOUR, D.D.S., Assistant Professor of Mechanical Technic.
- WILLIAM A. CAPON, D.D.S., Assistant Professor of Dental Ceramics.
- WILLIAM DIEHL, D.D.S., Assistant Professor of Operative Dentistry.
- JOHN V. MERSHON, D.D.S., Assistant Professor of Orthodontia.
- WILSON ZERFING, D.D.S., Assistant Professor of Operative Dentistry.

## LECTURERS.

- ROBERT HUEY, D.D.S., Lecturer on Operative Dentistry.
- MEYER L. RHEIN, D.D.S., M.D., Lecturer on Dental Pathology.
- WILLIAM WALLACE WALKER, M.D.S., D.D.S., Lecturer on Clinical Dentistry.

## INSTRUCTORS.

- GEORGE H. CHAMBERS, M.D., Instructor in Normal Histology.
- MILTON N. KEIM, JR., D.D.S., Instructor in Mechanical Dentistry.
- JAMES A. DOWDEN, D.D.S., Instructor in Mechanical Dentistry.
- AUGUSTUS O. KOENIG, B.S., M.D., Instructor in Dental Metallurgy.
- G. JANVIER PAYNTER, D.D.S., Instructor in Tooth Modeling.
- J. GARRETT HICKEY, D.D.S., M.D., Instructor in Physiology.
- WALTER S. CORNELL, M.D., Instructor in Osteology.
- CHARLES H. JACO, D.D.S., Instructor in Operative Dentistry.
- GEORGE M. DORRANCE, M.D., Instructor in Applied Anatomy.
- SIDNEY A. SANDS, D.D.S., Instructor in Operative Dentistry.
- JOHN W. DISMANT, D.D.S., Instructor in Mechanical Dentistry.
- WILLIAM T. CONARD, D.D.S., Instructor in Mechanical Dentistry.
- WILLIAM A. ALLWOOD, D.D.S., Instructor in Mechanical Technic.
- FRANK P. K. BARKER, D.D.S., Instructor in Crown-and-Bridge Work.
- GEORGE S. DILMORE, D.D.S., Instructor in Mechanical Dentistry.
- CLARENCE D'A. DANIELS, M.D., Instructor in Normal Histology.
- HOWARD LA RUE MARSH, B.S., M.S., Instructor in Chemistry.
- JOHN J. ROBRECHT, M.D., Instructor in Anatomy.
- SAMUEL R. SAWYER, D.D.S., Instructor in Operative Dentistry.

HERMAN VAN HASSELT, D.D.S., Instructor in Operative Dentistry.

ELLIS LEVY, D.D.S., Instructor in Operative Dentistry.

\*JOHN H. GUNTER, D.D.S., Instructor in Porcelain Inlay Work.

FRANK A. FOX, D.D.S. Instructor in Mechanical Dentistry.

JAMES R. MALLON, D.D.S., Instructor in Orthodontia.

HUGH McWILLIAMS, D.D.S., Instructor in Mechanical Dentistry.

JACOB LEON HERMAN, M.D., Instructor in Anatomy.

LE ROY AUGUSTUS WILKES, M.D., Instructor in Normal Histology.

CHARLES W. SWING, D.D.S., Instructor in Operative Technic.

E. HOWELL SMITH, D.D.S., Instructor in Mechanical Technic.

JOHN S. OWENS, D.D.S., Instructor in Crown-and-Bridge Work.

D. HAYES AGNEW IRWIN, D.D.S., Instructor in Extraction and Anesthesia.

JOHN BURKHARDT, JR., D.D.S., Instructor in Porcelain Work.

JOHN P. CHAPMAN, M.D., Instructor in Normal Histology.

JOSEPH L. APPLETON, JR., B.S., D.D.S., Instructor in Microbiology.

J. CARL CRISWELL, D.D.S., Instructor in Mechanical Dentistry.

WILLIAM H. HOUGH, JR., D.D.S., Instructor in Operative Technic.

HERANT B. MATTEOSSIAN, A.B., D.D.S., Instructor in Operative Dentistry.

THOMAS B. WADE, D.D.S., Instructor in Radiography.

ROBERT C. SHIELDS, D.D.S., Instructor in Porcelain Work.

HENRY L. WEBER, D.D.S., Instructor in Operative Dentistry.

JOHN M. LONG, D.D.S., Instructor in Operative Dentistry.

JOHN C. MACKIN, D.D.S., Instructor in Extraction and Examiner.

ROBERT S. DAVIS, D.D.S., Instructor in Orthodontia.

WILLIAM L. MAGEE, D.D.S., Instructor in Orthodontia.

JAMES C. ENTRIKEN, D.D.S., Instructor in Crown-and-Bridge Work.

JOSE L. LOPEZ, D.D.S., Instructor in Vulcanizing.

WILLIAM HARTZ, M.D., Instructor in Normal Histology.

J. WARREN CROZIER, D.D.S., Instructor in Operative Dentistry.

WALTER B. LAVELLE, D.D.S., Instructor in Prosthetic Dentistry.

HOWARD H. WOODROW, D.D.S., Instructor in Prosthetic Dentistry.

FORREST M. HARRISON, D.D.S., Instructor in Porcelain Inlays.

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\* Absent on leave.



ALEXANDER J. HUNTER, D.D.S., Instructor in Crown-and-Bridge Work.

FRANCIS M. JAQUISH, D.D.S., Instructor in Bacteriology.

WILLIAM R. WEBB, JR., D.D.S., Instructor in Porcelain Inlays.

CARRIE K. BRYANT, B.S., Instructor in Bacteriology.

HARRY D. SAYLOR, D.D.S., Instructor in Operative Dentistry.

ALFONS MOUFANG, D.D.S., Instructor in Crown-and-Bridge Work.

VINCENT E. D. BRAGG, D.D.S., Instructor in Operative Dentistry.

JAMES E. AIGUIER, D.D.S., Instructor in Applied Physics.

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JOHN A. REIMOLD, Secretary of the School of Dentistry.

HENRY RAINEY, Recorder.

WILLIAM H. TRUEMAN, D.D.S., Honorary Librarian.

LOUISE REAZIN, Acting Librarian.

#### CLINICAL INSTRUCTORS.

DR. EDWARD I. KEFFER,

DR. JOHN R. YORKS,

DR. DANIEL N. MCQUILLEN.

#### DENTAL GRADUATE SCHOOL.

\*FREDERIC A. PEESO, D.D.S., Assistant Professor of Crown-and-Bridge Work, and Director of the School.

ARCHIBALD C. EGLIN, D.D.S., Instructor in Crown-and-Bridge Work, and Secretary of the School.

\*FRANK W. PEESO, D.D.S., Instructor in Crown-and-Bridge Work.

W. CLYDE DECKER, D.D.S., Instructor in Crown-and-Bridge Work.

JOHN H. GUNTER, D.D.S., Instructor in Porcelain Work.

ARTHUR W. CROSS, Instructor in Crown-and-Bridge Work.

#### ORGANIZATION OF THE DENTAL SCHOOL.

The School of Dentistry of the University of Pennsylvania was organized in the early part of 1878. It was the third school created as the dental department of a university, having been preceded in this respect by the Harvard School of Dentistry (organized in 1867), and the Dental Department of the University of Michigan (organized in 1875).

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\* Resigned.

The motive leading to the creation of dental schools as regular departments of the university educational system was the rapid growth of dentistry as a profession. This necessitated improvement in the educational equipment of its practitioners, and tended to broaden the courses of instruction furnished by dental schools to meet the continual demand for more thorough training.

Realizing that while dentistry is a separate profession, yet constituting as it does an important branch of the science and art of healing, and that its close relationship with medicine necessarily called for the future development of dentistry in conformity therewith, the Trustees took action resulting in the creation of the School of Dentistry of the University of Pennsylvania. The plan of instruction was so arranged that the branches common to both medicine and dentistry were taught concurrently by teachers who held corresponding chairs in both medical and dental faculties; while the strictly dental teaching was provided for by the creation of chairs whose incumbents were specially qualified for giving instruction in their respective branches. This arrangement is in strict accordance with the university idea, by which the teaching of allied branches in different departments is centralized. It does not imply that the School of Dentistry is a branch of the School of Medicine, for, as a matter of fact, both are distinct Schools of the University.

It is worthy of note that the School of Dentistry is actually, as well as in name, a School of the University. Its position as a recognized member of the University family confers upon its students all of the advantages pertaining to that relationship. Its students enjoy in common with all other students of the University the privileges and social relationships pertaining to the student life of the whole body. Prominent among these features is membership in the Houston Club, an organization governed by students and domiciled in a club house the fittings and appointments of which are those of a strictly first-class club. Its students have also the use of the Dormitories, and are admitted to all of the athletic features of the University; while, with reasonable restrictions, the opportunity is afforded them to pursue such allied lines of study as in the judgment of the authorities may tend to add strength and fullness to the dental educational equipment.

The practical advantages that accrue to the dental student by such a broad policy are at once manifest. Its effect upon the status of the dental practitioner must be recognized when it is considered that during the student life his association with the students of the other divisions of the University is upon a basis of equality in all that concerns the student life of the institution. The influence of this feature in bringing

about a close relationship between dental and medical students develops a mutual respect and recognition, which in their career as practitioners, is of the utmost importance.

The equipment and facilities of the laboratories of microbiology and of histology and histopathology are unsurpassed. In connection with the work, each student has the individual use of an outfit for microscopical work, the best and most complete obtainable.

The Institute is also furnished with the highest grade equipment for radiography and likewise for photography in all its applications as well as with elaborate projecting apparatus for the photographic illustration of the didactic courses of instruction.

### EQUIPMENT.

The arrangement of the interior of the Dental Institute and its equipment are such that facilities are provided for the thorough education of the student in every important detail of his professional work. The clinical operating-room occupies one entire floor of the building, giving a floor space 205 by 48 feet, furnished with one hundred and thirty-four latest pattern Diamond operating chairs, each provided with a fountain cuspidor, with running water attached, and attachment for the Fisk saliva ejector, a bracket arm, and table for holding instruments, besides a separate cabinet and table for the instrument case. Electric and compressed air service are provided at each chair. A complete locker system in connection with the operative clinic furnishes means for the storage of instruments when not in use. In the fitting up of the operating-room, the aim has been to make the appointments as nearly as possible like those of a first-class private office, so that from the beginning of his course the student is familiarized with the conditions he will meet in actual practice.

One large general laboratory for prosthetic work is provided, and separate laboratories for crown-and-bridge work, orthodontia technics, prosthetic technics, operative technics, porcelain work including inlays, crown-and-bridge and continuous gum work, metallurgical work, cast metal fillings, vulcanizing and modeling; also special clinic rooms and laboratories. Ample arrangements are provided for the convenience and comfort of the students in the care of instruments, tools, etc. There are also hat and coat rooms, lavatories, storerooms, etc. The laboratories are fitted with the most approved appliances for work and instruction in the several departments of dentistry. Compressed air is supplied to the laboratory tables for melting and soldering operations, as well as for metallurgical work. The laboar-

tory lathes are driven by electric motor, and no feature which could add to the facilities for thorough and accurate work has been omitted.

The lecture amphitheater will comfortably seat 400. And in relation with it are arranged the dental museum and library.

As the laboratory, or manual-training method forms a prominent and necessary adjunct to didactic teaching, facilities for carrying out the technic system of instruction are provided in connection with each subject to which the system is applicable.

### ADMISSION.

The courses in Dentistry are open to women on the same terms as to men.

Special attention is called to the rule requiring all applicants for matriculation to be present and enter their names *not later than 5 o'clock P. M. on the Monday following the last Friday in September*, with the understanding, however, that in case of matriculation delayed beyond the date of official opening by causes beyond the control of the matriculant the practical work scheduled for the period preceding the first date for matriculation must be made up at the expense of the student.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation. No candidate will be allowed to matriculate for more than one session at a time.

### VACCINATION.

According to the Regulations of the Bureau of Health of the City of Philadelphia, the University of Pennsylvania is required to refuse admission to any person who cannot present a certificate signed by a physician stating that such person has been recently vaccinated or that he or she has previously had smallpox. All persons matriculating in the Evans Dental Institute will, therefore, have to present such a certificate at the time of matriculation and in default of such certificate must be vaccinated. Official forms furnished by the Bureau of Health of the City of Philadelphia can be obtained by applying in person or by messenger at Room 712, City Hall, between the hours of 9 A. M. and 4 P. M., and on Saturdays from 9 A. M. to 12 M., or at the office of the Dean.

### PRELIMINARY EDUCATIONAL REQUIREMENTS.

For the session 1917-18 the minimum standard for matriculation is 60 counts earned by four years of completed standard high school



work or an equivalent training in preparatory schools of equal academic grade, or by entrance examination.

The standard high school year is the *unit* in estimating values of subjects in counts.

A count is the unit of value assigned to work in a single subject pursued for one period per week throughout the standard school year of 36 weeks, each recitation period being not less than 45 minutes duration.

Of the required 60 counts not less than 45 must be earned in the following obligatory groups:

	Counts
English (3 years).....	10
Any foreign language (2 years).....	10
Mathematics (Algebra through quadratics and plane geometry).....	10
Science (5 counts of which must be earned in chemistry).....	10
American History and Civics.....	5
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	45

In the adjudication of High School and preparatory school certificates not more than 15 counts credit will be allowed for any one year of preparatory school work.

Certificates from foreign countries should be authenticated by representatives of the United States consular or diplomatic service.

An applicant whose credentials do not fully meet the requirements outlined above, or who does not pass the entrance examinations with a percentage of 70 in every subject, may make up the required work in any branch or branches by examination in the subjects specified in the following list which will indicate the maximum count values assigned to the ordinary high school subjects based upon the proportionate extent to which each subject named enters into the standard high school curriculum, subject, however, to the rule that the applicant shall have successfully passed in the subjects of the obligatory groups.

Counts		Counts	
English Grammar.....	2	Civil Government.....	2
Rhetoric and Composition...	3	First Year Latin.....	5
History of English Literature	2	Caesar.....	4
History of American Liter- ature.....	1	Cicero.....	5
American History.....	3	Vergil.....	5
		Latin Composition.....	2



Counts		Counts	
First Year German.....	5	Plane Geometry.....	5
Second Year German.....	10	Solid Geometry.....	2
First Year French.....	5	Trigonometry.....	2
Second Year French.....	10	Physics.....	5
First Year Spanish.....	5	Chemistry.....	5
Second Year Spanish.....	10	Botany.....	2½
English Classics C.....	4	Zoölogy.....	2½
English Classics D.....	4	Biology.....	5
Grecian History.....	3	Physical Geography.....	4
Roman History.....	3	Physiology and Hygiene.....	2½
General History.....	5	Bookkeeping.....	4
Medieval and Modern History	4	Agriculture.....	2
English History.....	3	Commercial Geography.....	3
Advanced Arithmetic.....	2	School Hygiene.....	2
Algebra through Quadratics..	5	Advanced Algebra.....	2

In lieu of certificates covering the above specified requirement, the applicant will be required to pass a matriculation examination, which shall be the equivalent of that forming the basis of the entrance standard of preliminary education.

### ENTRANCE EXAMINATIONS.

The entrance examinations are conducted by the Bureau of Professional Education, created by statute of the State of Pennsylvania. A card of identification must first be obtained by the candidate in person from the Secretary of the Dental School, and presented not less than one week previous to the date set for the examination in order to obtain an official permit from the Bureau to take the examination. A uniform fee of \$1.00 is charged by the Bureau of Professional Education for the permit regardless of the number of subjects taken at any one examination by the candidate.

The entrance examinations for the session of 1917-18 will be held in Central High School Building, Broad and Green Streets, Philadelphia, on the following dates: Thursday, Friday and Saturday, February 8, 9, 10, 1917, at 2.30 P. M., June 7, 8, 9, 1917, at 2.30 P. M., and on Thursday, Friday and Saturday, September 6, 7, 8, 1917, at 2.30 P. M.

### ADMISSION BY CERTIFICATE.

Certificates of preliminary education submitted in lieu of entrance examination or any part thereof, in order to receive credit for the

work done, must set forth in detail the course of instruction through which the applicant has passed, the number, character and extent of studies, the length of time devoted to each and the grades attained therein, all duly authenticated by the proper authorities of the school that issues them. Such detailed certificates must be made out upon official blank forms of the Dental School, and these will be furnished to all applicants desiring them.

In order that certificates of preliminary education may be promptly adjudicated by the official examiner as to their credit value, they should be sent to the Dean of the Dental School as early as possible, and in any event not later than September 1st.

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The Regents' Dental Students Qualifying Certificate is required from students entering from New York State.

Certificates submitted by applicants who have obtained their preparatory education in schools of the State of New Jersey are required to first submit their credentials to the State Superintendent of Public Instruction, at Trenton, N. J., for approval.

#### ADMISSION TO ADVANCED STANDING.\*

Students possessing the requisite preliminary education and who have attended one full term in a dental school recognized by this University, will be admitted to the second year, subject to the rules governing admission to advanced standing.

Graduates of a recognized medical school will be admitted to the Second-year Dental Class without examination. Undergraduates of medical schools are not admitted to advanced standing in the dental course.

Applicants for advanced standing, who have not had instruction in Practical Histology and Practical Chemistry equivalent to that required by this department, will be permitted to make up such deficiency by taking special courses, for which an extra fee of fifteen dollars is charged for each branch. Classes for special courses in these branches are organized during the second week in September for the benefit of those desiring to take the laboratory work before the work of the regular session.

Students who have credit for the completed work of two or more terms in a recognized dental school, and who possess the requisite

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\* All applicants for advanced standing must pass the examinations of the years they desire to omit, or furnish proof that they have passed equivalent examinations in some recognized dental or medical school.

preliminary educational qualifications, are eligible for admission to the third year, subject to the rules governing admission to advanced standing.

Graduates of foreign dental schools are required to conform to the rules governing preliminary educational qualifications as well as the rules governing advanced standing, and their credentials must have been satisfactorily authenticated before they can be accepted.

### SCHOLARSHIPS.

1. UNIVERSITY SCHOLARSHIPS.—The Trustees have established two University Scholarships in Dentistry, the award of which is based upon the result of a competitive examination. They are not awarded for less than the entire course.

Examinations for these scholarships are held on the same day with those fixed for entrance to the College (*Monday, September 17, 1917*, at 9 o'clock A. M.), and are open to all applicants otherwise eligible for admission to the School of Dentistry. Circulars setting forth in detail the plan of the scholarship examination may be had upon application to the Dean of the School of Dentistry.

2. PHILADELPHIA FREE SCHOLARSHIPS.—Under an agreement with the city of Philadelphia, fifty free scholarships exist in the University for the benefit of graduates of the public schools. The candidates for these scholarships are examined by the Board of Public Education, and award is made to those who reach the highest grade, as vacancies occur from year to year.

Under another agreement with the city of Philadelphia, seventy-five free scholarships exist in the University for the benefit of graduates from local schools in general. Information regarding the latter scholarships should be obtained from the Mayor's Office.

All applicants for admission upon a scholarship basis must be citizens of the State of Pennsylvania and are required to fully meet the educational requirements for unconditional matriculation.

### STATUS OF STUDENTS.

A regular student is one who is admitted to the regular courses of the School, and who is a candidate for the degree of D.D.S.

A special student is one who is admitted to the School for partial courses, but who, not being a candidate for the degree, does not take the regular course. The admission of special students is at the discretion of the Dean.

The School reserves the right to sever its connection with any

student who does not show the right attitude toward his work, damages School property, or is objectionable to the Faculty because of misconduct.

Students who lack the necessary talent to pursue a course in Dentistry, as evinced by failure in one or more subjects, may be asked to withdraw and may be refused admission at the beginning of the succeeding semester.

### SPECIAL COURSES.

The School offers special courses of instruction in any or all of the branches of the curriculum to qualified dental graduates. Such courses are elective and do not lead to the dental degree. The fees for the special courses are \$75.00, \$150.00 or \$200.00, depending upon whether the student remains under instruction for three months, six months or the entire session respectively. These course fees are in all cases additional to the regular matriculation fee of \$5.00.

### HOUSTON CLUB AND GYMNASIUM.

A uniform charge of \$10.00 a year is made upon all students, to include membership in Houston Club with all of the usual club privileges, and the use of the gymnasium and its facilities, including locker and the use of Franklin Field, excepting only at such times as the Field may be in use by athletic teams.

### PHYSICAL EDUCATION.

In the School of Dentistry two hours a week of graded physical education is an obligatory part of the curriculum for all students of the first year, excepting those who have previously had an equivalent course of physical training elsewhere and those who for this or by reason of physical disability may be excused by the Director of Physical Education.

### ARRANGEMENT OF SESSION.

*With the session beginning September 28, 1917, the regular course of instruction leading to the degree Doctor of Dental Surgery will consist of four annual sessions, each in separate academic years. Students who have matriculated in and are now pursuing the three years curriculum will be permitted to continue their preparation for graduation under the terms and arrangement of course heretofore governing the three years curriculum.*



Students matriculating for the session beginning September 28, 1917, will be required to pursue the four years curriculum.

The object of the administration in lengthening the course of instruction leading to the degree Doctor of Dental Surgery is to provide more time for the student in which to prepare himself for dental practice.

The constantly increasing development of knowledge of the relations of the mouth and teeth to bodily health and the importance of dental and oral disorders in their individual and public health relations has made it imperatively necessary for the dental practitioner who hopes to efficiently meet the public demand for intelligent and skilful service to be thoroughly grounded in the fundamental medical sciences, particularly of Anatomy, Physiological Chemistry, Physiology, Pharmacology, Bacteriology and Pathology in both their general and special relations.

The restorative and art procedures of dentistry unless based upon a thorough training in these fundamental sciences are without a solid foundation and their practice otherwise becomes purely empirical.

It is the purpose of the four years course to afford needed time and opportunity to develop the educational preparation of the dentist upon a rational foundation. To that end the curriculum will be arranged on the basis of expanding the courses of instruction in the subjects already constituting the three years course for the purpose of securing to the student a more thorough training and a higher grade of educational efficiency rather than by the addition of any considerable number of new branches to the course, which would tend to produce a diffuse rather than an intensive educational result. Such new subjects as are to be ultimately included in the four years curriculum will be of a minor rather than major grade of importance and will be announced later in connection with the perfected schedules of the later years of the four years course.

The general arrangement of the study schedule of the first year session of the four years course is as follows:

#### TENTATIVE SCHEDULE FOR THE FIRST YEAR OF THE FOUR YEARS' DENTAL COURSE.

The admission requirements are four years of completed standard high school work, inclusive of one year of general chemistry.

The length of the course is 34 weeks of  $5\frac{1}{2}$  days each, 8 hours per day —1,496 available hours.



SUBJECTS.	LECTURES.	LABORATORIES.
Dental Anatomy and Modeling Tooth Forms.....	$1 \times 34 = 34$ hrs.	
Dental Anatomy and Modeling Tooth Forms Laboratory.....	.....	$2 \times 34 = 68$ hrs.
Advanced Inorganic Chemistry.....	$3 \times 17 = 51$ hrs.	
Qualitative Chemistry.....	.....	240 hrs. (12 wks. = $60 \times 4$ hrs.).
Histology and Embryology...	$2 \times 17 = 34$ hrs.	
Histology and Embryology Laboratory.....	.....	120 hrs. (6 wks. = $30 \times 4$ hrs.).
Anatomy; Osteology.....	$1 \times 17 = 17$ hrs.	
Descriptive Anatomy.....	$4 \times 34 = 136$ hrs.	
Dissection.....	.....	120 hrs. (6 wks. = $30 \times 4$ hrs.).
Prosthetic Technic.....	$1 \times 17 = 17$ hrs.	
Prosthetic Technic Laboratory.....	.....	245 hrs. (14 wks. = $70 \times 3\frac{1}{2}$ hrs.).
Operative Technic.....	$1 \times 17 = 17$ hrs.	
Operative Technic Laboratory.....	.....	245 hrs. (14 wks. = $70 \times 3\frac{1}{2}$ hrs.).
Physical Education.....	$2 \times 34 = 68$ hrs.	
Microbiology (Zoölogy and Botany).....	$2 \times 17 = 34$ hrs.	
Dental Physics.....	$2 \times 17 = 34$ hrs.	

The academic year consists of one session beginning on the last Friday in September, and ending at Commencement, on the third Wednesday in June. The course of instruction is graded.

Laboratory instruction, not only in all of the practical dental branches, but also in Practical Chemistry and Metallurgy, Histology, Microbiology, Physiology, Pharmacology and Osteology, forms a prominent feature of the course.

## MID-YEAR EXAMINATIONS.

The arrangement of subjects constituting the curriculum of the second and third years as specified here and on page 33 *et seq.*, apply only to students in course who have previously matriculated under the three years curriculum; for those entering the course for the session of 1917-18 it is provisional only, and subject to change before the opening of the following session.

In the first-year course final examinations are held about February 1 in Chemistry, Histology and a progress examination in Elementary Anatomy.

In the second-year course, at the same date, a progress examination is held on Elementary Physiology, Applied Anatomy and Materia Medica.

In the third-year course final examinations are held at mid-term in Crown-and-Bridge Work, Dental Ceramics, Anesthesia and Orthodontia and a progress examination in Therapeutics.

## GRADUATION.

At the close of the course, a student who has fulfilled all requirements satisfactorily receives the degree of *Doctor of Dental Surgery* (D.D.S.), under the following regulations:

I. He must be of legal age and of good moral character.

II. He must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction and performed the required practical work in all departments; and his last year of instruction must have been at the School of Dentistry of this University.

III. He must have dissected at least two parts; must have performed thoroughly, and to the satisfaction of the Professor of Operative Dentistry, all the usual dental operations; must have undertaken at least one artificial case comprising a full upper and lower denture, and brought it completed, with the patient, to the Assistant Professor of Mechanical Dentistry, before the fifteenth day of May; and must have prepared for presentation to the Professor of Mechanical Dentistry, before the fifteenth of May, a specimen case to be deposited in the University collection. The required operations, as well as the work on the artificial case, must have been performed in the Dental Institute.

IV. After receiving notice of having successfully passed the final examination, he must enter his name on the Register of Candidates and be present at Commencement to receive the Degree.

## TEXT BOOKS AND WORKS OF REFERENCE.\*

## FIRST YEAR.

## Text Books.

## Works of Reference.

*Operative Dentistry:*

Kirk, The American Text  
Book of Operative Dentistry.  
(Fourth edition.)

Black, Operative Dentistry.

*Mechanical Dentistry and Metallurgy:*

Turner, The American Text  
Book of Prosthetic Dentistry.  
(Fourth edition.)

*Chemistry.*

Richter, Inorganic Chemistry.  
Alex. Smith, General Inorganic  
Chemistry.  
Medicus, Qualitative Analysis.  
(Eighth edition.)

*Anatomy:*

Piersol, Human Anatomy.  
Black, Dental Anatomy.

Tomes, Dental Anatomy.

*Histology:*

Piersol, Normal Histology.

*Dissection Manual:*

Heisler, Practical Anatomy.

*Microbiology:*

Marshall, Microbiology.

Coulter, Barnes and Cowles,  
Text Book of Botany.

*Dictionary:*

Stedman, Medical Dictionary.  
(Fourth edition.)

## SECOND YEAR.

*Materia Medica:*

Prinz, Dental Materia Medica  
and Therapeutics. (Fifth  
edition.)

United States Dispensatory.  
Pharmacopœia of the United  
States.

*Applied Anatomy:*

Cryer, Studies of the Internal  
Anatomy of the Face.

Ivy, Applied Anatomy and Oral  
Surgery.

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\* In all cases the latest editions should be obtained.

## Text Books.

## Works of Reference.

*Physiology:*

Stewart, Manual of Physiology.

Starling, Human Physiology.  
Hammarsten, Physiological  
Chemistry.  
Taylor, Digestion and Meta-  
bolism.

*Bacteriology:*

Abbott, Principles of Bacteri-  
ology.  
Hiss and Zinsser, Text Book of  
Bacteriology.

Park and Williams, Pathogenic  
Microorganism.  
Zinsser, Infection and Immunity.

*General Pathology:*

Delafield and Prudden, Text  
Book of Pathology.

Adami, Principles of Pathology,  
Vol. I.  
Ziegler, General Pathology.

## THIRD YEAR.

*Dental Pathology and Therapeutics:*

Burchard-Inglis, Dental Path-  
ology, Therapeutics and Phar-  
macology. (Fourth edition.)

Adami, General Pathology.

*Oral Surgery:*

Brophy, Oral Surgery. A treat-  
ise on the Diseases, Injuries  
and Malformations of the  
Mouth and Associated Parts.

Blair, Surgery and Diseases of  
Mouth and Jaws.

*Dental Anatomy, etc.:*

Hopewell-Smith, An Introduc-  
tion to Dental Anatomy and  
Physiology.

The Histology and Patho-His-  
tology of the Teeth, Dental  
Microscopy.

*Orthodontia:*

Angle, Treatment of Maloc-  
clusion of the Teeth and  
Fractures of the Maxillæ.

*Dental Metallurgy.*

Essig-Koenig, Dental Metal-  
lurgy.

Medical and Surgical Clinics at the University Hospital are held from 12 M. to 2 P. M., on Wednesdays and Saturdays, and are open to the dental classes. These are in addition to the Dental Clinics at the Philadelphia Hospital, on Saturdays at 12 o'clock, and to the Oral Surgical Clinics as noted on the roster.

### OPERATING-ROOM, LABORATORIES, ETC.

The operative clinic room and laboratories are spacious and well equipped, affording ample facilities for the practical training of the student.

The dissecting-room is large, well lighted, thoroughly ventilated, and furnished with ample material for the successful prosecution of anatomical studies.

### GRADATION OF THE COURSE.

In order to facilitate work in the practical branches, and to economize the student's time, the regular session is so arranged that students during the first year are required to devote the time equally to dental, histological and chemical laboratory work.

Until those matriculated under the three years curriculum shall have completed that course the second and third year students will have practically the entire forenoon of each day for dental work. Thus ample opportunity is afforded for practice in Operative and Mechanical Dentistry. In the latter branches, the students are divided into sections, devoting to practice in the operating-room the time not otherwise engaged.

This plan of gradation enables the second-year student to be examined on Materia Medica, Bacteriology, Applied Anatomy and Physiology, and on Progress in Operative and Mechanical Dentistry. Such an arrangement is economical not only in point of time, but also in facilitating a student's acquirement of knowledge in the remaining branches.\*

### OUTLINE OF THE TWO REMAINING YEARS OF THE THREE YEARS COURSE.

#### SECOND YEAR.

1. Students of the Second-year Class will attend lectures on Materia Medica, Physiology, Operative and Mechanical Dentistry,

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\* The authorities of the school reserve the right to make any modifications in connection with the announcements embodied in this catalogue that may from time to time be required or be deemed wise without the formality of further notice.



- Dental Pathology and Therapeutics, Bacteriology and Bacterio-Pathology, Applied Anatomy and Oral Surgery. Work in Practical Anatomy (dissecting) is finished during this year.
2. They will pursue Operative and Mechanical Work, with the privilege of the operating-room and appliances during the morning and afternoon clinics.
  3. Examinations at mid-term of the second year will be held upon one-half of the subject of Applied Anatomy, Materia Medica, and Physiology. At the close of the term upon final Physiology, Materia Medica, Bacteriology and Bacterio-Pathology, Applied Anatomy and Progress in Operative and Mechanical Dentistry.

#### THIRD YEAR.

1. Students of the Third-year Class will continue the practical work in Operative Dentistry, Mechanical Dentistry and Dental Metallurgy, and the lectures on these subjects, together with Dental Pathology and Therapeutics, Oral Surgery and Orthodontia.
2. Examinations at mid-term of the third year will be held upon: Ceramics, Crown-and-Bridge Work, Orthodontia, Therapeutics and Anesthesia.
3. At the close of the term, examinations will be held upon Operative Dentistry, Mechanical Dentistry, Dental Pathology, and Therapeutics, Oral Surgery, Dental Metallurgy, Dental Histology and Histopathology and Comparative Odontology.

The lectures on OPERATIVE DENTISTRY embrace the comparative anatomy of the teeth; the functions and microscopical peculiarities of the dental organs; the development of teeth and their component tissues; a full description and elucidation of all dental operations, such as filling, extracting and root canal treatment; the pathological relations of the teeth to the other parts of the system; and a minute clinical description of all diseases related to dental surgery or of interest to the dentist. The methods taught are demonstrated in laboratories and clinics.

The course of instruction in MECHANICAL DENTISTRY is a graded one, and is arranged to embody in the teaching of the first year the fundamental principles of prosthetic work, including the properties of the materials used for prosthetic purposes and the various mechanical processes involved in their utilization; in the second year a more specific and extended instruction in these procedures is given, and the finger-skill necessary in the usual mechanical operations is developed;

while in the third year the student is instructed in the choice of means for attaining a given end, and the selection of this means in accordance with the requirements of specific cases. During the third year attention is given to the more highly specialized branches of Prosthetic Dentistry under qualified demonstrators.

Instruction in Mechanical Dentistry is accomplished by the didactic lectures illustrated by means of heroic models, lantern slides, and black-board drawing; by graded technic courses, which include in each year illustration of the lecture topics by actual demonstration of the processes before the class, and the manufacture of the appliances so illustrated by the class, divided into small sections for systematic work; by specimens on exhibition in the general laboratory illustrative of successive stages in the technic requirements; and by abundant clinical practice.

The lecture course will include, in addition to dental prosthesis the replacement of tissues about the mouth not strictly dental, and the manufacture of appliances for the remedy of palatal defects.

The instruction in ORTHODONTIA will be by means of lectures, quizzes, a technic course and clinical practice; and attention will be specially paid to the treatment of cases in the light of their etiology.

The lectures on CHEMISTRY embrace the study of chemical physics and principles of chemical philosophy, together with a detailed consideration of the principal elementary substances and their compounds; and of the fundamental principles of Organic Chemistry, including the classification of organic compounds, and the special study of typical members of the different classes. Special attention is also given to the laws of chemical affinity, and the conditions under which they are modified, especially as they relate to the preparation of mixtures and prescriptions.

The course in PRACTICAL CHEMISTRY in the laboratory includes exercises in chemical manipulation; the study of the chemical properties of the principal metals; the reactions of acids and their combinations; and the general principles of qualitative analysis, especially as they relate to the detection and separation of the metals and compounds of interest to practitioners of Dentistry. Each student is provided with a separate table and apparatus, and is required to perform all the usual chemical manipulations under the directions of demonstrators, as well as to exhibit by written formulæ all reactions involved in his tests.

HUMAN ANATOMY is taught in its relations to all the branches of medical science, including Dentistry. The lectures are illustrated by fresh dissections of the human body, and by a rich museum of anatomical specimens, well-executed models and drawings.

In addition to the lectures and demonstrations by the Professor of Anatomy, a course of demonstrations in Applied Anatomy is given to the students of the second year. The course consists of a drill by recitations and demonstrations of dissections upon those anatomical regions with which the dental and oral surgeon is especially concerned. Practical instruction in general and special HISTOLOGY will be given in the histological laboratory to the students of the first year, the class being divided into sections. The laboratory is furnished with excellent microscopes and all apparatus necessary to enable the student to become familiar with the most approved methods of microscopical technology and with the minute structure of all the tissues and organs. Special facilities are afforded for original research; for this purpose the laboratory is open throughout the year, except during July and August.

The OSTEO-SYNDESMOLOGICAL LABORATORY is under the supervision of the Professor of Anatomy and Instructor in Osteology. In this laboratory, the first-year student is required to make himself familiar with the skeleton and the articulations as a part of his instruction in practical anatomy.

The course in PHYSIOLOGY includes thorough instruction on the subject of animal physiology, with special reference to the physiology of Man.

The lectures on DENTAL PATHOLOGY include such portions of general pathology as have a bearing upon the special subjects taught.

Dentition and its possible pathological results receive careful attention, followed by a detailed consideration of all the diseases to which the teeth and surrounding parts are liable; the normal and abnormal character of the oral secretions, and the direct and remote relations that the pathological conditions of the mouth sustain to other portions of the system.

The treatment required under each head is explained, and the recognized processes necessary to secure a return to normal conditions are minutely detailed.

**MATERIA MEDICA.**—This subject is covered by a lecture course of one hour per week during the second semester of the first year and two hours per week during the entire second year. The aim is to familiarize the student with the pharmacology of all of the important drugs that he will employ in the Infirmary during his college course, and later on, in actual practice. A complete description of the various medicinal agents, including their origin and preparation and the methods of their application, together with the nature and action of the more important poisons and their antidotes, is given.

The writing of prescriptions receives due consideration, and the student is required by practical exercises to familiarize himself with its technique.

The course is amply illustrated by practical demonstrations and by selected specimens, and the simpler methods of compounding pharmaceutical preparations.

The course is concluded with a discussion of those agents which are employed in that branch of treatment generically termed physical therapeutics.

A progress examination on the subject of *Materia Medica* is held at the end of the first year and a final examination on the entire subject is held at the end of the second year.

**MICROBIOLOGY AND BACTERIO-PATHOLOGY.**—The growing importance of this subject in relation to dental pathology and therapeutics has made necessary certain fundamental modifications in the technique of practically all dental operations. A clear understanding of the practical bearing of the life processes of microorganism has become a necessity for intelligent and successful dental practice, just as it has similarly for surgical practice.

The course is so arranged with respect to the requirements of the dental practitioner that he will afterwards be able not only to correctly apply the most approved methods for preventing and combating the action of microorganisms and to develop an efficient system of antiseptic technique in connection with his work, but he will be trained in the various methods that will enable him to study the infective factor which is the exciter of pathological conditions in special cases arising in his practice.

The course consists of both didactic and practical instruction in bacteriology, mycology, protozoölogy general pathology and the pathology of infections.

The didactic lectures deal first with a preliminary discussion of the position of microorganisms in biology, following which the morphologic and physiologic characteristics of bacteria are considered, including methods of isolating, cultivating and identifying the various species, with a discussion of the action of germicidal agents; this is followed by a discussion of the higher fungi and protozoa bearing an etiological relationship to pathologic processes of importance to the dental practitioner.

A continuance of the didactic teaching deals with that part of the subject of pathology treating of infectious processes; including immunity and bacterio-therapy in the treatment of infections.



The Laboratory Course includes the following subjects:

- I. Microscopic technique, including a study of the different morphologic types.
- II. Preparation of culture media and practical demonstration of the various methods of sterilization.
- III. Methods of obtaining, from mixtures of various microorganisms, individual species in pure culture.
- IV. Study of pathogenic organisms; their isolation and identification; also their relation to disease processes, including demonstrations of the manner in which they produce disease.
- V. Demonstrations in general pathological histology.
- VI. Mechanism of immunity, with demonstration of the technique of the various immunity reactions and other laboratory methods of diagnosing the nature of infections.
- VII. Asepsis, with practical demonstrations of methods employed for the sterilization of instruments and materials employed by the practitioner.
- VIII. Antisepsis in dental surgery, with methods employed for determining the germicidal value of various substances employed for the destruction of microorganisms.
- IX. A study of the flora of the mouth of a patient is required of each student, a detailed report of which must be submitted for examination.

The lectures on these subjects are appropriately illustrated and accompanied by suitable demonstrations whenever possible. The Laboratory of Microbiology is thoroughly equipped for practical instruction in that subject, including an ample number of high grade microscopes for the special use of students in the study of that branch. Examination upon the subject of microbiology and related pathology will be a prerequisite to the obtaining of the dental degree.

Provision has been made in the laboratory for advanced students to pursue further studies in relation to disease conditions affecting the patients with whom they are occupied in the clinic; the work is carried out under the direction of the laboratory staff.

ORAL SURGERY is a specialty which is a distinct outgrowth from Dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the surgical and pathological anatomy of the mouth,



jaws, and associate parts; the etiology, diagnosis and treatment of lesions of these parts; the most advanced method of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and personally treat cases under the supervision of the Professor of Oral Surgery and his assistants.

Special facilities for the performance of oral surgical operations and for the care of patients are provided in the University Hospital and the Philadelphia Hospital.

COMPARATIVE AND HUMAN ODONTOLOGY, DENTAL HISTOLOGY AND HISTOPATHOLOGY.—The course of lectures and demonstrations comprising the instruction given on this subject is intended to expound the facts and principles underlying the sciences of Comparative and Human Odontology, Dental Histology and Histopathology, to simplify and elucidate the problems connected therewith, to assist the students' systematic study of the same, to present, as they may arise, new facts and theories of competent authorities and to especially emphasize those aspects of the subject which have practical bearing upon the science and art of Dental Surgery. It embraces the study of the functions, numeration, topography and morphology of the dentitions of fishes, reptiles and mammals, their methods of implantation and replacement, their homologies, evolution, anatomy, relationships and eruption and the functions of their component parts. Comparative Odontology is introduced in an illustrative way, and is only used in a subservient sense, as explanatory of the odontology of the teeth of man and the primates.

The histology and histopathology of the teeth and associated parts are considered from the academic and practical standpoints, and include microscopical examinations of the hard and soft parts and their structural modifications, the histogenesis of the teeth of fishes, reptiles and mammals, and the minute anatomy of the chief pathological conditions of the human dental organs.

The lectures are fully illustrated by means of lantern slides, microscope slides, table specimens, charts, diagrams and blackboard drawings.

### CLINICAL PRACTICE.

Seven hours daily (except on Saturdays) are spent in actual practice under the supervision of the instructors; on Saturdays from 9 A. M. to 12 M. Every student is required to provide his own instruments, except those for extracting. He is required to keep them in perfect order, and will be furnished with a place in which they can be locked when not in use.

## INFIRMARY AND LABORATORIES.

The Infirmary and Laboratories are open to the students for practice every day during the week, except on Saturday afternoons, which are reserved for clinics that may be given by members of the Faculty or instructors.

The Infirmary and Laboratories are open throughout the year, except during July and August.

## THE DENTAL GRADUATE SCHOOL.

The Dental Graduate School offers facilities for advanced instruction in the various departments of Dental Science and Art, including advanced Crown-and-Bridge Work; Inlay and Ceramic Work; Operative Technic; Dental and Oral Prosthesis; Dental Bacterio-Pathology including Sialosemeiology; Orthodontics; and Dental Jurisprudence.

The courses are open only to graduates of recognized dental educational institutions.

For detailed information respecting any of the courses offered in the Dental Graduate School, application should be made to Dr. A. C. Eglin, Secretary, Fortieth and Spruce Streets, or to the Dean.

## LIBRARY, MUSEUM AND CABINETS.

The Library of the Institute consisting of a collection of several thousand volumes containing the standard and periodical literature of dentistry, is believed to be the most extensive and relatively complete repository of dental literature extant.

The WISTAR AND HORNER MUSEUM, founded about one hundred years ago, annually augmented, is unequaled in the United States for the number and variety of its specimens of the normal and the morbid anatomy of the human body. It also contains a large number of preparations in Comparative Anatomy; a rich collection relating to Dentistry, such as the different stages of dentition, abnormal conditions of the teeth, mandibles of the lower animals, etc.; and an extensive collection of models. This collection is deposited in the building opposite Logan Hall, erected by the late General Isaac J. Wistar, and called the WISTAR INSTITUTE OF ANATOMY AND BIOLOGY. The Museum is open every week day, excepting holidays, from 9 A. M. to 4 P. M., throughout the sessions. The matriculation fee in the School of Dentistry confers admission to the Museum.

## TUITION FEES AND EXPENSES.\*

The tuition fee is \$200.00 per annum and is due and payable *in advance* in two equal parts, on matriculation and February 1, respectively. Remittances should be in cash, or by bank draft, certified cheque, or postal money order drawn for the exact amount due, made payable to the University of Pennsylvania, and paid to W. O. Miller, Bursar, Room 102, College Hall.

A matriculation fee of \$5.00 must be paid by all new students, whether previously registered in the University or not.

The matriculation fee must be paid in person and not forwarded in advance.

Under no circumstances are any changes made in the established fees.

Every student shall, upon entering the University, make a deposit of \$10.00 to cover loss, damage, or breakage of University property, library fines, or any charge not paid by the student in some other way. A student whose deposit is by charges against it reduced to \$5.00 or less shall be required to pay a sum sufficient to restore the deposit to its original amount. No deposit or balance remaining on a deposit shall be finally repaid to a student until he shall have been graduated or shall have formally withdrawn from the University.

Students of the School of Dentistry may attend, without additional charge, the lectures and recitations in any other department of the University. This privilege may be obtained only by the concurrent approval, in writing, of the respective Deans.

A definite list of instruments for the first year is specified and it is required that each student shall provide himself therewith as a necessary part of his equipment. No other selection of instruments will be accepted in lieu of the officially required set. Additional instruments will be required for the second year and third year work. These instruments may be utilized in general practice.

Rooms may be had at the University Dormitories or in houses near the University, and board may be had in private boarding houses in the immediate vicinity of the University. In any case the cost of board and lodging will be from \$6.00 a week upward.

The Institute is provided with ample locker facilities for the storage of instruments, apparel, etc. It is to be understood, however, that the lockers are provided solely as an accommodation, and that in assigning them to the students the School assumes no responsibility whatever with respect to the care or loss of the contents.

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\* For Estimates of Expenses, see p. 44.

*First Year.*

Matriculation Fee (paid once only).....	\$5 00
Tuition Fee.....	200 00
Gymnasium and Houston Club Fee.....	10 00
Fee for Dissection.....	5 00
Use of Dissecting Material (one part).....	2 00
Breakage Deposit.....	10 00

*Second Year.*

Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Fee for Dissection.....	5 00
Use of Dissecting Material (one part).....	2 00

*Third Year.*

Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00

*Fourth Year.*

Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00

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Further information may be obtained from the Dean of the Thomas W. Evans Museum and Dental Institute. School of Dentistry University of Pennsylvania.

The Dean's office is in the Dental Institute, Fortieth and Spruce Streets. Office hours: 9 A. M. to 1 P. M., daily.

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Since the foundation of this School, the total number of graduates has been 3,622.

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The subjoined reports give some conception of the character and mass of work performed in the Operative and Mechanical Departments; but the amount of costly material and careful attention necessary for the insertion of 7,506 gold fillings can be appreciated only by the experienced operator.

The number of patients treated (13,390) exhibits the extent of the Dental Infirmary service to a large class of persons of limited means.

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OPERATIVE DEPARTMENT.

Gold fillings.....	7,506
Tin fillings.....	10,652
Amalgam fillings.....	6,418

Cement fillings.....	3,867
Treatment of pulp and pulp canals.....	10,986
Extractions.....	9,829
Porcelain Inlays.....	552
Gold Inlays.....	420
Miscellaneous.....	6,842
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Total.....	57,072

Eighty-two ounces (6 lbs., 10 ounces) of gold were used for filling, exclusive of that used for plate and crown work in the Laboratory.

### PROSTHETIC DEPARTMENT.

Full Dentures (Clinical, 280—Technic, 1,415).....	1,695
Partial Dentures (Clinical, 246—Technic, 1,540).....	1,786
Artificial Crown Work (Clinical, 395—Technic, 2,745).....	3,140
Repair Cases (Clinical, 227—Technic, 505).....	732
Bridge Work (Clinical, 71—Technic, 645).....	716
Miscellaneous Crown-and-Bridge Cases (Clinical).....	49
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Total.....	8,118

### ESTIMATE OF EXPENSES.

#### FIRST YEAR.

Matriculation Fee.....	\$5 00
General Tuition Fee.....	200 00
Gymnasium and Houston Club Fee.....	10 00
Dissecting Fee.....	5 00
Use of Dissecting Material (one part).....	2 00
Technic Fee.....	2 00
Breakage Deposit.....	10 00
Books (about).....	40 00
Instruments (about).....	125 00
Material for Histological Work.....	4 00
Board, 35 weeks at \$6.00.....	210 00
Washing, 35 weeks at 75 cents.....	26 25
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Total, first year.....	\$639 25



General Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Dissecting Fee.....	5 00
Use of Dissecting Material (one part).....	2 00
Material for Prosthetic Technic Work.....	2 00
Dental Engine, instrument (about).....	55 00
Additional instruments (about).....	143 00
Books (about).....	25 00
Board, 35 weeks at \$6.00.....	210 00
Washing, 35 weeks at 75 cents.....	26 25
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Total, second year.....	\$678 25

## THIRD YEAR.

General Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Material for Prosthetic Technic Work.....	2 00
Class expenses; rental of Cap, Gown, and Hood.....	5 00
Instruments (about).....	50 00
Material for Ceramic Work.....	5 00
Board, 37 weeks at \$6.00.....	222 00
Washing, 37 weeks at 75 cents.....	27 75
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Total, third year.....	\$521 75

## FOURTH YEAR.

General Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Board, 37 weeks at \$6.00.....	222 00
Washing, 37 weeks at 75 cents.....	27 75
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Total, fourth year.....	\$459 75

In estimating, a liberal allowance should be made for personal expenses.

These include expenditures for white operative jacket, used in the clinical work, gymnasium suit (first year), class photographs, class dues, etc.

# SCHOOL OF DENTISTRY.

## THIRD YEAR CLASS.

NAME.	RESIDENCE.	CITY ADDRESS.
Aiguier, James Edward Ph.G. (Columbia)	New York, N. Y.	3800 Locust St.
Algase, Charles Guy A.B. (Yale)	Philadelphia	32 S. Yewdell St.
Allison, John Joseph	Middletown, Conn.	3912 Spruce St.
Altman, Julius	Philadelphia	792 S. 2d St.
Asprey, William Joseph	Orange, N. J.	421 Preston St.
Baldwin, Stanley Hanford	Norwalk, Conn.	Dorm. Class of '81
Bastian, Carlisle Clarence	Bellevue Hill, Sydney, N. S. W., Australia	954 S. Paxon St.
Baumgarten, Maurice Sigmund	Passaic, N. J.	Dorm. 206 Leidy
Baylinson, Myer	Atlantic City, N. J.	407 S. 40th St.
Beachler, Robert Bridenbaugh	Greenville	202 S. 36th St.
Becker, DeForest	Berne, N. Y.	202 S. 37th St.
Beddoe, Edward Allen	Scranton	3912 Spruce St.
Bender, John Harry	Ashland	Dorm. 315 Leidy
Benson, Elmer Manly	Providence, R. I.	3424 Sansom St.
Blakeman, Leslie Suter	Mt. Vernon, N. Y.	4039 Chestnut St.
Blumberg, Leonard Saul	Philadelphia	320 S. 5th St.
Bordner, Robert Simon A.B. (Ursinus)	Collegeville	4019 Powelton Ave.
Bozorth, (Mrs.) Jessica Longsdorf A.M. and Ph.B. (Dickinson)	Bryn Mawr	4009 Chestnut St.
Briesch, Leigh Hedwig	Ringtown	107 S. 40th St.
Briggs, Thomas Lacy, Jr.	Chester	[627 Welsh St.]
Brown, Ernest Norman	Brisbane, Queensland, Australia	4029 Walnut St.
Brown, George Cowles	Bridgeport, Conn.	[102 Elmwood Ave., Narberth]
Burns, Hugh Regius	Hazleton	4048 Walnut St.
Byrne, Alfredo Juan	Olivos, Argentine, S. A.	261 S. 38th St.
Byrnes, Joseph Francis	Waterbury, Conn.	218 S. 37th St.
Cadwallader, Charles M.D. (Madrid)		
Odontologo (Madrid)	Madrid, Spain	4419 Baltimore Ave.
Callahan, Vincent Daniel	Middletown, N. Y.	Dorm. 325 Franklin
Campbell, Harry Clay B.S. (State)		
M.D. (Temple)		
V.M.D. (Pennsylvania)		
Ph.G. (Philadelphia)	Llanerch	[301 Lansdowne Road]
Campbell, John B.	New York, N. Y.	3911 Pine St.
Clark, Horace Gerard	Philadelphia	2011 Christian St.
Clark, Raymond Kenneth	Morristown, N. J.	3722 Locust St.
Collie, Warren Hale	West Palm Beach, Fla.	26 N. 38th St.
Corby, Arthur Edward	Hackensack, N. J.	3800 Locust St.
Cornish, Edwin Russell	Philadelphia	1909 N. 8th St.
Coverley-Smith, William Joseph	Edinburgh, Scotland	503 S. 41st St.
Crane, Frank Alf	Pullman, Wash.	3312 Walnut St.
Cullen, Francis Joseph	Scranton	3721 Spruce St.
Cunning, Francis Courtland	Troy, N. Y.	4048 Walnut St.
Currie, Waldo Reynolds	Woodstock, N. B., Can.	3933 Pine St.
Daugherty, Paul Rees	Altoona	3800 Locust St.
Davidson, William Thompson	Philipsburg	107 S. 40th St.
Deegan, Harry William	Shelton, Wash.	3312 Walnut St.
DeWitt, Robert Almon	Scranton	3912 Spruce St.
Diaz, Manuel Maria	Panama, Rep. of Panama	4050 Chestnut St.
Donnelly, Francis Edward	Honesdale	2011 Christian St.
Donovan, Harry W.	Kingston, N. Y.	Dorm. 20 Rodney
Dowd, John Luke, Jr.	Rome, N. Y.	3721 Locust St.
Dundon, Walter Brown	Binghamton, N. Y.	3950 Pine St.
Dunn, Frank Joseph	Poughkeepsie, N. Y.	Dorm. 45 Provost Tower

NAME.	RESIDENCE.	CITY ADDRESS.
Ehrle, Frederick Charles	Syracuse, N. Y.	3710 Spruce St.
Encherman, George Abraham	Perth Amboy, N. J.	403 S. 40th St.
Ernst, Frank James, Ph.G.	St. Mary's	221 S. 36th St.
Evans, David Haydn	Blossburg	3912 Spruce St.
Even, Charles Pierre Marie Alphonse D.E.O.F., Chirurgien-Dentiste (Paris)	Paris, France	3430 Sansom St.
Fagan, George Raymond	Utica, N. Y.	3712 Spruce St.
Favero, Edward	Brooklyn, N. Y.	Dorm. 32 Morris
Federman, Albert Gillis	Chester	[309 W. 7th St.]
Fiedling, Richard Starbuck A.B. (Williams)	Glens Falls, N. Y.	5300 Angora Terrace
Fischer, Herbert Louis	Philadelphia	3909 Spruce St.
Fischwenger, Henry Rheinfrank	Jamaica, N. Y.	4057 Spruce St.
Fleischer, Morris Bernard S. B.S. (N. Y. University) M.S. (Pennsylvania)	New York, N. Y.	206 S. 36th St.
Foley, Eugene	Freehold, N. J.	Dorm. 44 Memorial Tower
Forman, Edward Elihu	Philadelphia	403 S. 40th St.
Frankel, Jules	West Pittston	3701 Walnut St.
Fricke, Albert Theodore, Jr.	Bridgeport, Conn.	4242 Pine St.
Friend, Edgar Vail	Middletown, N. Y.	3459 Walnut St.
Gallegos, Gonzalo Joseph	San José, Costa Rica, C. A.	4207 Chestnut St.
Gardiner, Robert Nelson A.B. (Lincoln)	Columbia, S. C.	4026 Sansom St.
Geisenhoner, Albert Louis	Schenectady, N. Y.	2726 N. 15th St.
George, Chalmers Lee	Salem, Ore.	Dorm. 44 Provost Tower
Giammattei, Domingo Porfirio	Santa Ana, Salvador, C. A.	434 N. 33d St.
Gingenbach, Walter Scott	Erie	503 S. 41st St.
Gorman, Philip Joseph	Hazleton	3950 Pine St.
Gorman, Philip Joseph	Hazleton	3950 Pine St.
Gould, Frank Robling	Scranton	3707 Walnut St.
Gould, Roland Gavitt	Mt. Vernon, N. Y.	4039 Chestnut St.
Gray, James Loller	Millville, N. J.	107 S. 40th St.
Gray, Robert Gurley	Syracuse, N. Y.	3717 Locust St.
Greene, John Harold	Hamilton, N. Y.	3800 Locust St.
Griffin, Timothy James	S. Hadley Falls, Mass.	3721 Locust St.
Grimm, Theodore Herbert	Newark, N. J.	3459 Walnut St.
Guilfoyle, Arthur William	Syracuse, N. Y.	4057 Spruce St.
Hadley, Arthur Hallam	Holly, Mich.	3912 Spruce St.
Hall, John Henry	Taunton, Mass.	244 S. 40th St.
Hall, Wilfred	South Millbrook, N. Y.	3956 Pine St.
Haman, Guy Louis	Reading	4253 Sansom St.
Hammond, Beecher Freeman	Lake George, N. Y.	4039 Chestnut St.
Harley, William Wallace	Hammonton, N. J.	210 S. 36th St.
Harris, Leon Harold	Syracuse, N. Y.	3709 Chestnut St.
Harris, Manville Samuel	Syracuse, N. Y.	3415 Walnut St.
Harter, George Talbott	Rochester, N. Y.	Dorm. 39 Bodine
Hayman, Sylvester	Brooklyn, N. Y.	403 S. 40th St.
Henao, M. José Tomas	Manizales, Colombia, S. A.	3717 Spruce St.
Henderson, Charles Clinton	Troy, N. Y.	4039 Chestnut St.
Heverin, John Joseph, Jr.	Brooklyn, N. Y.	Dorm. 23 Provost Tower
Hille, Hans Carl Frederick	River Edge, N. J.	4039 Chestnut St.
Hittinger, Francis Russell	Easton	Dorm. 52 Morris
Hochstrasser, Chester Arthur	Berne, N. Y.	226 S. 38th St.
Hodgkins, Burton Linwood	Eden, Me.	3710 Spruce St.
Hogue, Herbert McDowell	Philadelphia	3715 Locust St.
Holzman, William	Brooklyn, N. Y.	3815 Spruce St.
Howe, Carl Freeman	Ithaca, N. Y.	3800 Locust St.
Howes, Ashley Easterbrook	New Rochelle, N. Y.	do.
Hudson, William Campbell	Yonkers, N. Y.	4039 Chestnut St.
Hurff, Russell Ballenger	Bridgeton, N. J.	107 S. 40th St.
Hussey, George Augustine, Jr.	Bristol	202 S. 41st St.
Hutchinson, Carl Duncan	Augusta, Me.	3710 Spruce St.
Hyland, Edward Aloysius	Utica, N. Y.	3702 Locust St.
Hynard, William Henry	Warwick, N. Y.	Dorm. 127 Class '87
Ibanez, Hernando	Quibdo, Colombia, S. A.	3931 Baltimore Ave.
Iguina, Manuel Alberto	Rio Piedras, P. R.	3711 Woodland Ave.

NAME.	RESIDENCE.	CITY ADDRESS.
Jackson, Wesley Lyttle T.	Clinton, Ontario, Can.	1210 Locust St.
Jamison, Francis Trevanion A.B. (Lincoln)	Wrightsville	3414 Ludlow St.
Johnson, Clarence Edwin	Philadelphia	221 S. 26th St.
Johnson, Frederick Heppe	Freeland	3719 Locust St.
Jones, Edward Ferdinand	Sea Bright, N. J.	3414 Ludlow St.
Kalison, Samuel	Brooklyn, N. Y.	3815 Spruce St.
Kane, Myer Morris	Carmel, N. J.	4 N. 41st St.
Keenholts, Raymond	Schenectady, N. Y.	223 S. 38th St.
Kelly, George Miller	Clayton, N. Y.	3714 Locust St.
Kent, Warren Hamilton	Trenton, N. J.	4057 Spruce St.
Kistler, John William	Tamaqua	2601 Lombard St.
Klie, George Dietrich	Weehawken, N. J.	4039 Chestnut St.
Klund, Jacob Edgar	Philadelphia	4949 Catharine St.
Knebelman, Abraham	Nicolaef, Russia	832 S. Alden St.
Koob, Arthur Stanley	Brooklyn, N. Y.	Dorm. 23 Provost Tower
Krall, Michael	New Haven, Conn.	3911 Pine St.
Kuhlman, George Henry	Nanticoke	3942 Pine St.
Kutikow, Ovsow	Bobruisk, Russia	1838 S. 7th St.
Landry, Philip Joseph	Saratoga Springs, N. Y.	202 S. 36th St.
Lindemuth, C. Lloyd	Middletown	213 S. 41st St.
Lindsay, Edgar Wright	Ironton, Ohio	4043 Locust St.
Looney, Edward Carroll	Morristown, N. J.	4048 Walnut St.
Lopez, Jose Ramon	Guatemala City, Guatemala, C. A.	4305 Baltimore Ave.
Lorenz, Harry Bernard	Tremont	202 S. 36th St.
Loveridge, Leonard Ellis	Oil City	5425 Angora Terrace
Lumis, Thomas William	West Chester	4019 Powelton Ave.
Luntz, Benjamin	East Hampton, Conn.	Dorm. 402 Brooks
Lutz, William Raymond	Trenton, N. J.	107 S. 40th St.
McCarthy, Paul Joseph	Limestone, N. Y.	202 S. 41st St.
McCloskey, Eugene Augustine	Hawley	do.
McGuire, Frank Thomas	Dunmore	do.
McMillan, James Jadwin	Carbondale	3800 Locust St.
McQuillan, David Paul, Jr.	Royersford	109 S. 38th St.
McWilliams, Thomas Peter	Scranton	3721 Spruce St.
MacDonnell, William Leo B.S. (Colgate)	Hamilton, N. Y.	3800 Locust St.
Mackie, Sumner Whiting, Jr.	Albany, N. Y.	Dorm. 26 Rodney
Macmillan, Arthur S.	Jersey City, N. J.	Dorm. 49 Coxe
Mann, Morris Townsend	Brockport, N. Y.	Dorm. 55 Coxe
Margulies, Irving	Brooklyn, N. Y.	403 S. 40th St.
Markham, Glenn Haskell	Clinton, N. Y.	3717 Locust St.
Marks, Louis	Philadelphia	607 N. 6th St.
Matera, Thomas Joseph	Brooklyn, N. Y.	Dorm. 34 Robert Morris
Mathews, Howard King	Philadelphia	3410 Race St.
Monroe, George Blaine	East Emporium	223 S. 40th St.
Moody, Charles Aston	St. Andrew, Jamaica, B. W. I.	3838 Hamilton St.
Morgan, Allie Green	Newport News, Va.	101 S. 41st St.
Mulholland, Robert Emmett	Long Branch, N. J.	4242 Pine St.
Murray, William Graeme	Herkimer, N. Y.	101 S. 41st St.
Muyskens, William Roggen A.B. (Grinnell)	Alton, Ia.	213 S. 41st St.
Nathan, Jane L.D.S. (Edinburgh)	Johannesburg, South Africa	4242 Pine St.
Nelson, Louis Mickelsen	Gardnerville, Nev.	3912 Spruce St.
Neuber, Augustave, Jr.	Schenectady, N. Y.	do.
Newton, Maurice	Trenton, N. J.	403 S. 40th St.
Novack, Samuel	Philadelphia	1728 S. Broad St.
O'Brien, Philip Sheridan	Brooklyn, N. Y.	221 De Kalb Sq.
Odell, Elmer Ellsworth	New York, N. Y.	Dorm. 37 Bodine
Parlow, Clarence Elliott	Adams, N. Y.	3714 Locust St.
Philips, Charles Ferg	Minersville	109 S. 40th St.
Pollock, Leo Gordon	Jersey City, N. J.	3610 Walnut St.
Porias, Julius Louis	Johnstown	960 N. Franklin St.
Potter, Roger Whitney	New Canaan, Conn.	3800 Locust St.
Quentzer, Hadar Bertil	Wargarda, Sweden	3219 Sansom St.



NAME.	RESIDENCE.	CITY ADDRESS.
Radin, Moe Morris	Newark, N. J.	3745 Locust St.
Rath, Walter Arthur	Brooklyn, N. Y.	3617 Locust St.
Reading, John Philip	Kingston, N. Y.	Dorm. 22 Morgan
Reid, Theodore Marshall	Grenloch, N. J.	
Rich, Morris	Blackville, S. C.	4036 Spring Garden St.
Robinson, Abram	Albany, N. Y.	Dorm. 349 McKean
Roohan, Leo Ward	Saratoga Springs, N. Y.	202 S. 36th St.
Rosenstengel, Bernard Leo	Toowoomba, Queensland, Australia	4233 Baltijore Ave.
Ross, John William	Osceola, Ia.	3800 Spruce St.
Rosser, Eli Bruce	Kingston	Dorm. 53 Cox
Roth, Benjamin	Trenton, N. J.	3911 Pine St.
Ruttenberg, Max	Camden, N. J.	1123 Baring St.
Scanlan, Edward Dennis	Schenectady, N. Y.	3952 Pine St.
Schupack, Esther	Philadelphia	408 S. 9th St.
Schwartz, Moses	Newark, N. J.	3707 Locust St.
Scudder, Lawrence Charles	Northport, L. I., N. Y.	3912 Spruce St.
Shanahan, Oliver Anson	Sprague, Wash.	3718 Locust St.
Shapiro, Philip Lewis	Glens Falls, N. Y.	3933 Pine St.
Sharpe, Herman	Philadelphia	332 N. 2d St.
Shaw, Robert Miller	Springfield, Mass.	Dorm. 25 Morgan
Short, William Cecil	Easton	Kent Leed Apts.
Silverman, Lawrence William	Syracuse, N. Y.	3815 Spruce St.
Slocum, Stanley Eldon	Long Branch, N. J.	3912 Spruce St.
Solomon, Jacob	Perth Amboy, N. J.	403 S. 40th St.
Sorgenfrei, Carl	Syracuse, N. Y.	4057 Spruce St.
Stanio, James Nicholas	New Haven, Conn.	244 S. 40th St.
Starr, Roy Carl		
M.E. (Pennsylvania)	Topeka, Kan.	4624 Cedar Ave.
Strickhouser, Rodger Chronister	York	Dorm. 21 Cox
Sturridge, Frank Alexander Leslie	London, England	3800 Locust St.
Sullivan, Joseph James	Lestershire, N. Y.	3950 Pine St.
Sweeney, John Edward	Allegany, N. Y.	3800 Locust St.
Swigler, Adam William	Lansdowne	[170 Melrose Ave.]
Taylor, Henry Kroehl	Asbury Park, N. J.	3733 Locust St.
Thiede, Henry August	Rochester, N. Y.	3800 Locust St.
Tiley, Charles Anderson	Essex, Conn.	3609 Locust St.
Tompkins, Frederick Merle	New Haven, Conn.	4043 Locust St.
Toro, Julio Alberto	Ponce, Porto Rico	3715 Woodland Ave.
Trebing, Carl Edward, Jr.	Camden, N. J.	[508 N. 5th St.]
Tucker, Francis de Sales		
A.B. (St. Joseph's)	Overbrook	[860 Wynnewood Rd.]
Vickers, William Vincent	Syracuse, N. Y.	4057 Spruce St.
Vreeland, Fred Douglas	Easton	4039 Chestnut St.
Wagner, Herman Lee	Lewistown	3952 Pine St.
Wald, Alfe Gilbert	Philadelphia	238 S. 38th St.
Walkerman, Ray Joseph	Jamestown, N. Y.	Dorm. 36 Morris
Warren, George Emmett	Marlboro, N. Y.	226 S. 38th St.
Warren, George Peirce	Swarthmore	[730 Harvard Ave.]
Wartel, Harry	Philadelphia	2015 N. 31st St.
Watson, Howard Clarence	Bayonne, N. J.	4048 Walnut St.
Weisman, Simon Sidney	Newark, N. J.	407 S. 40th St.
Wheeler, Sperry Giles		
A.B. (Colgate)	East Bloomfield, N. Y.	3601 Sansom St.
Witz, Louis	New Haven, Conn.	403 S. 40th St.
Yoder, Maurice Barto	Kutztown	Dorm. 446 Lippincott
Zeve, Harry Leopold	Youngstown, Ohio	Dorm. 139 Provost Smith
Zimmerman, David Ellis		
A.B. (Lebanon Valley)	Annville	3459 Chestnut St.

## SECOND YEAR CLASS.

Abel, Stuart Granville	Hellertown	620 N. 43d St.
Alberstadt, David Abraham	Philadelphia	2429 S. Fairhill St.
Albert, Earl Harry	Lebanon	Dorm. 45 Memorial Tower
Albrecht, Garrett	South Bethlehem	4048 Walnut St.
Aleman, Luis Carlos	Panama City, Panama	4050 Chestnut St.
Allen, Earl Judson	Hancock, N. Y.	107 S. 40th St.
Anderson, Harold Edward	Hoboken, N. J.	3702 Locust St.



NAME.	RESIDENCE.	CITY ADDRESS.
Angelucci, Venanzio B.S. in Econ., M.A. (Pennsylvania)	Philadelphia	1523 S. 15th St.
Arias, Juan Bautista	Panama City, Panama	4060 Irving St.
Arnold, Earle Sawyer	Meriden, Conn.	Dorm. 45 Bodine
Asenjo, Luis Onofre	Santiago, Chile	300 N. 40th St.
Aungst, Harvey Marlin	Philadelphia	5001 Chestnut St.
Bailey, George Godfrey, Jr.	Manasquan, N. J.	3800 Locust St.
Bailey, Harold Curtis	Sharon	4039 Chestnut St.
Baker, Herbert Leon	Mechanicville, N. Y.	202 S. 41st St.
Bartsch, Alexander Robert	Jersey City, N. J.	4039 Chestnut St.
Bauer, Joseph Charles	West Haven, Conn.	3800 Locust St.
Bauerle, John Augusto	Copihue, Chile	300 N. 40th St.
Becker, Leonard Runyon	Philadelphia	2424 N. 20th St.
Bender, Walter Ellsworth	Brooklyn, N. Y.	Dorm. 38 Bodine
Berger, Abbott	New York, N. Y.	4048 Walnut St.
Bernhardt, Walter Jacob	Wayland, N. Y.	3952 Pine St.
Berryman, John Wesley	New York, N. Y.	3722 Locust St.
Bivins, Leon Waters	Philadelphia	1819 Addison St.
Boone, Ralph Willard	Presque Isle, Me.	3415 Walnut St.
Borneman, William Russell	Bechtelsville	204 DeKalb Sq.
Bouton, Clyde Sanford	Pine Plains, N. Y.	4039 Chestnut St.
Braem, Ernest Henry	Sag Harbor, L. I., N. Y.	3712 Locust St.
Bragman, Samuel	Syracuse, N. Y.	403 S. 40th St.
Brailove, Edward B.S. (Syracuse)	Woodbine, N. J.	2102 Columbia Ave.
Brennan, Eulogius Joseph	Philadelphia	1839 S. 18th St.
Brenner, Harry Nelson	York	232 S. 40th St.
Brown, James Ernest	Riverton, N. J.	
Brown, Roy Henry	Hammonton, N. J.	210 S. 36th St.
Brown, Russell Charles	Trenton, N. J.	3800 Locust St.
Buggy, Vincent Thomas	Philadelphia	1510 Callowhill St.
Butler, Clarence William	Honesdale	932 N. 42d St.
Camp, Frederick Stanley, Jr.	Stamford, Conn.	4043 Locust St.
Candela, Louis Alvah	Schenectady, N. Y.	3715 Spruce St.
Carter, Samuel Miller, Jr.	Jersey Shore	3721 Spruce St.
Castro, Abraham de	Panama City, Panama	4224 Baltimore Ave.
Christmas, Lawrence Duke	Philadelphia	3911 Olive St.
Clappier, Harold Oerther	Minersville	Dorm. 335 Franklin
Clayton, Robert	Philadelphia	3035 Kensington Ave.
Cogan, Frank William	Bayonne, N. J.	Dorm. 33 Memorial Tower
Cohen, Herbert Edward	Philadelphia	3802 N. 18th St.
Cologne, John Terryl	Fayetteville, Tenn.	3945 Baltimore Ave.
Colt, Harold Dayton	Cambridge Springs	3800 Locust St.
Conklin, Willard Reeves	Garwood, N. J.	214 S. 37th St.
Connell, George Washington, Jr.	Brooklyn, N. Y.	4048 Walnut St.
Conover, Charles Sterling	Atlantic Highlands, N. J.	4010 Spruce St.
Cooper, Morris Lane	Johnson City, Tenn.	3904 Baltimore Ave.
Cobert, Everett Eugene Harrington	Long Branch, N. J.	Dorm. 450 Lippincott
Cuadra, Alberto Joaquin	Granada, Nicaragua, C. A.	4207 Chestnut St.
Danforth, Walter Henry	Bristol, Vt.	3912 Spruce St.
Davis, George Courtland	Coatesville	3904 Baltimore Ave.
Davis, Leonard Alexander	Savannah, Ga.	Dorm. 122 McKean
Dean, William Hannum	West Chester	[115 Magnolia St.]
Deber, Seymour Charles	Port Reading, N. J.	3934 Pine St.
Derk, Marshall Glee	Kratzerville	3723 Spruce St.
Deshon, Rafael	Leon, Nicaragua	4207 Chestnut St.
Dillon, Joseph William	Belmar, N. J.	3721 Spruce St.
Di Nubile, Anthony Rocco	Philadelphia	719 Fitzwater St.
Dolan, Leon Bartholomew	Montrose	223 S. 40th St.
Dughi, Lazarus Arthur	Lewistown	3707 Locust St.
Dulac, Arthur	Gardiner, Me.	3710 Spruce St.
Egenmaier, Max Ernst	Frankfort, Germany	1231 S. 47th St.
Eveland, Ralph Gilliam	Franklin, N. Y.	Dorm. 42 E. F. Smith
Fabiani, Gregorio Ph.G. (Naples)	Philadelphia	943 Christian St.
Faller, Henry Snyder	Carlisle	3912 Spruce St.
Farrell, Harry William	Middletown, N. Y.	3912 Spruce St.
Finestone, Henry Arthur	Philadelphia	703 N. 5th St.

NAME.	RESIDENCE.	CITY ADDRESS.
Fitzpatrick, Francis Joseph	Philadelphia	140 Rector St.
Flexer, James Richard	Allentown	4039 Chestnut St.
Porkel, Chester Dewey	Rochester, N. Y.	Dorm. 448 Lippincott
Frank, Herbert Paul	New York, N. Y.	3610 Walnut St.
Gabler, John Wilfred	Schenectady, N. Y.	3952 Pine St.
Gage, Carl Chambers	Syracuse, N. Y.	3800 Locust St.
Ganey, David Joseph	South Bethlehem	109 S. 40th St.
Gifford, Julian Itha	Bainbridge, N. Y.	3415 Walnut St.
Gifford, Julius Ithal	do.	do.
Gilhuly, Holmes Randolph	Newark, N. J.	3912 Spruce St.
Gilmartin, Charles Anthony	Bethel, Conn.	3721 Spruce St.
Giovagnoli, Marco	Florence, Italy	4054 Irving St.
Glanville, Raymond Thomas	Morristown, N. J.	3710 Spruce St.
Gosnell, Bernard James	St. Johns, N. B.	3743 Locust St.
Gurnsey, Harry Kincaid	Salt Lake City, Utah	3800 Locust St.
Haas, John Jacob	Town of Union, N. J.	3960 Pine St.
Hafely, Warren Lester	Brooklyn, N. Y.	3733 Locust St.
Haller, William Raleigh	Herkimer, N. Y.	3743 Locust St.
Hanold, John Francis	Arlington, N. J.	223 S. 40th St.
Harkrader, Wilbur Talmage	Westfield, N. J.	Dorm. 54 Cox
Harrington, Arthur Winslow	Adams, Mass.	254 S. 38th St.
Hatfield, Whitton Redett	Brooklyn, N. Y.	3800 Locust St.
Haycock, Robert Wilbert, Jr.	Butler, N. J.	3710 Spruce St.
Hayes, Ollington Cornelius, Ph.G.	Newark, N. J.	254 S. 38th St.
Heilbrun, Robert Muhlfelder	New York, N. Y.	3709 Chestnut St.
Henke, Robert August	Schenectady, N. Y.	3912 Spruce St.
Higgins, Lemuel Woodward	Worcester, Mass.	3721 Locust St.
Hitchner, Elam Martin	Woodstown, N. J.	3800 Locust St.
Hodgkins, Charles Harrington, Jr.	Lamoine, Me.	4039 Chestnut St.
Hoke, Leslie Llewellyn	Oswego, N. Y.	3800 Locust St.
Hollar, Francis Gerald	St. Andrew, Jamaica, B. W. I.	604 N. 39th St.
Hollingshead, Elmer Percy	Bayonne, N. J.	Dorm. 44 E. F. Smith
Honsberger, Ralph Harry	Lansford	3735 Locust St.
Horner, Frank Kay	Atlantic City, N. J.	4048 Walnut St.
Horwitz, Samuel	Philadelphia	2244 Callowhill St.
Hoyt, Earle Banks	Atlantic Highlands, N. J.	Dorm. 40 Cox
Huston, George Washington	Three Springs	3948 Pine St.
Hyman, Rudolph	Atlantic City, N. J.	707 Pine St.
Jack, Meredith Marston	Philadelphia	1533 Locust St.
Jacobs, Reginald Robert	Buenos Aires, Argentine, S. A.	3727 Locust St.
Jacobus, Arthur Forrest, Jr.	Red Bank, N. J.	1820 Chestnut St.
Jenkins, Thomas Rodgers	Punxsutawney	Dorm. 11 Wilson
Jerauld, Wesley Frederick	Rumford, Me.	3267 Sansom St.
Johnson, Ethan Alan	Falconer, N. Y.	3710 Spruce St.
Johnson, Lewis Sayre	Augusta, Me.	do.
Jones, Harold Stephen	Slatington	3745 Locust St.
Joseph, Irving	New York, N. Y.	124 S. 39th St.
Jossem, Morris Henry	do.	403 S. 40th St.
Keel, Harry Lee	Framville, N. C.	3912 Spruce St.
Keffer, Edward Brooks	Philadelphia	3619 Locust St.
Kidd, Howard Ray	Huntingdon	3933 Pine St.
Kirrstetter, Harry George	Philadelphia	2941 N. 6th St.
Kliman, Percy	Syracuse, N. Y.	403 S. 40th St.
Klotz, Donald Jean	Lansford	3735 Locust St.
Kobre, George	Brooklyn, N. Y.	3815 Spruce St.
Konwiser, Samuel	Newark, N. J.	3945 Baltimore Ave.
Kroll, Frederick Herman	Wilkes-Barre	3805 Spruce St.
Kuich, Clyde DeWald	Philadelphia	5335 N. 13th St.
Lahey, Thomas Robert	Hoboken, N. J.	3722 Walnut St.
Larkin, Martin Joseph, Jr.	Carbondale	3943 Locust St.
Leh, Russell Weir	Egypt	3745 Locust St.
Lehman, Walter Leonard	Galeton	3612 Locust St.
Levin, Louis	Harrison, N. J.	3709 Chestnut St.
Levy, Albert	Elmira, N. Y.	4233 Baltimore Ave.
Light, Grant Hobart	Avon	3614 Locust St.
Lincoln, Benjamin Abraham	Philadelphia	1428 N. 7th St.
Linehan, John Herbert	Glens Falls, N. Y.	3720 Locust St.

NAME.	RESIDENCE.	CITY ADDRESS.
Little, Louis	Leominster, Mass.	Training House
Loebel, Louis Harris	Philadelphia	1001 N. 6th St.
Logue, Everett Glosser	Williamsport	3323 Walnut St.
London, Arthur	New York, N. Y.	213 S. DeKalb St.
Ludwig, Jacob Hagenbuch B.S. (Moravian)	Bethlehem	4039 Chestnut St.
McCaffrey, James Edward Felix	Allegheny, N. Y.	3707 Locust St.
MacLean, Robert Donald	Brooklyn, N. Y.	3800 Locust St.
Mackey, David Lewis	Oxford	233 S. 40th St.
Maloney, James Vincent	Dover, N. J.	3705 Walnut St.
Marcovitz, Sidney David	Philadelphia	2942 Ridge Ave.
Martin, J. Lewis	do.	3908 Spruce St.
Martin, Victor Aloysius	Peekskill, N. Y.	202 S. 36th St.
Maxwell, J. Murray	Utica, N. Y.	3743 Locust St.
Meehan, Joseph Patrick	New Britain, Conn.	3722 Locust St.
Meier, Walter	Holstein, Iowa	3800 Locust St.
Melnicoff, Albert Richard	Philadelphia	323 George St.
Menzies, John	Brisbane, Queensland, Australia	3601 Walnut St.
Meyer, Joseph Hermann	Nice, France	4419 Baltimore Ave.
Miller, Reuben Enoch B.S. (Muhlenberg)	Easton	4039 Chestnut St.
Millhouse, Ernest Joseph	Jamestown, South Australia	250 S. 40th St.
Minnerly, Walter Francis	Roxbury, N. Y.	261 S. 38th St.
Mochel, John Vincent	Reading	[814 Penn St.]
Mooney, John William, Jr.	East Orange, N. J.	4048 Walnut St.
Moore, Harvey Martin	Wilkes-Barre	3717 Locust St.
Moore, Mary Margaret	Osceola Mills	3711 Locust St.
Morgan, Lewis Jones	Wilkes-Barre	3717 Locust St.
Morton, Charles Allen	Portland, Me.	4039 Chestnut St.
Moynihan, Francis William	Glens Falls, N. Y.	3720 Locust St.
Muir, Roy Alastair	Brisbane, Queensland, Australia	4939 Chester Ave.
Murray, Robert James A.B. (Fordham)	New York, N. Y.	Dorm. 401 Brooks.
Murrin, Charles Francis	Carbondale	3943 Locust St.
Noyes, Kenneth Smith	Lake George, N. Y.	3733 Locust St.
O'Brien, James	Olyphant	Dorm. 374 Hopkinson
Pabst, Howeth	Syracuse, N. Y.	Dorm. 214 Foerderer
Parker, Aloysius Ambrose	Brooklyn, N. Y.	3737 Spruce St.
Partridge, Henry Silver	New York, N. Y.	202 S. 36th St.
Pennock, Henry Huff	Altoona	11 N. 34th St.
Phillips, Leon Irving	Westfield	3745 Locust St.
Plugge, Frederick William	Washington, D. C.	Dorm. 34 Cox
Prieto, Justo	Ponce, Porto Rico	3709 Woodland Ave.
Reese, Harry DeVore	Johnstown	254 S. 38th St.
Reilly, Roe Edmond	Elmira, N. Y.	Dorm. 327 Franklin
Reinhard, Walter Bernard	Newark, N. J.	3952 Pine St.
Robbins, Noel Austin	Port Norris, N. J.	3942 Pine St.
Romine, Harry Leo	Morristown, N. J.	4039 Chestnut St.
Rosen, Alexis	Philadelphia	1532 N. 7th St.
Roth, George Joseph	do.	5176 Parkside Ave.
Rutstein, Myron Mortimer	New York, N. Y.	3709 Chestnut St.
Ruyl, James Peter, Jr.	Brooklyn, N. Y.	3800 Locust St.
Sager, Aubrey Palmer	Philadelphia	3700 Hamilton St.
Sassaman, Harry Milton	Royersford	3732 Walnut St.
Scheeren, Otto	Ford City	3415 Walnut St.
Schlafer, George Phillip	Delhi, N. Y.	do.
Schmelz, Ella Elizabeth Wilhelmina	Philadelphia	229 S. 40th St.
Scholz, James Harold	Fulton, N. Y.	3737 Locust St.
Shapiro, Martin Theodore	Philadelphia	624 Catharine St.
Shirley, Elwyn Raymond	Whitehall, N. Y.	202 S. 36th St.
Showacre, William Rudisill	Philadelphia	5941 Spruce St.
Silberman, Louis	Cleveland, Ohio	403 S. 40th St.
Simonetti, Ernest John	Brooklyn, N. Y.	3948 Pine St.
Simons, William Shirk A.B. (Franklin and Marshall)	Marietta	4224 Baltimore Ave.
Skau, Clarence McClelland	Schenectady, N. Y.	128 S. 38th St.
Sloan, James Augustus, Jr.	Johnstown	Dorm. 235 Baird

NAME.	RESIDENCE.	CITY ADDRESS.
Smith, Milton Clifton	Peekskill, N. Y.	*Dorm. 44 Thomas Penn
Smith, Robert	Lewistown	3455 Walnut St.
Smith, Walter Stillman, Jr.	Mystic, Conn.	3619 Locust St.
Sosnowski, Alexander	Nanticoke	3942 Pine St.
Spaulding, Ralph Lockwood	Moravia, N. Y.	3459 Walnut St.
Stabinsky, Louis	Watertown, N. Y.	3815 Spruce St.
Stamm, Harold Augustus	Brooklyn Manor, L. I., N. Y.	3703 Woodland Ave.
Steinhauer, Carl Frederick	Wilkes-Barre	3945 Baltimore Ave.
Stemer, David Llewellyn	Passaic, N. J.	3709 Chestnut St.
Stephanis, Constantine		
A.B. (Bates)	New York, N. Y.	135 S. 55th St.
Straussberg, George	Newark, N. J.	206 S. 36th St.
Strenkert, Arthur Cyriac	West Hoboken, N. J.	Dorm. 442 Hopkinson
Sturdevant, Preston Joseph	Wilkes-Barre	Dorm. 224 McKean
Sullivan, Eugene Francis	Fall River, Mass.	3722 Walnut St.
Suter, Martin McKinley	New Matamoras, Ohio	3805 Spruce St.
Sutnick, Michael	Trenton, N. J.	27 S. 34th St.
Taylor, Harold Norman	Sydney, N. S. W., Australia	250 S. 40th St.
Teller, Adrian Reeve	Newburgh, N. Y.	3800 Locust St.
Thayer, Frederick William	Dushore	3707 Walnut St.
Thomas, Arthur Raymond	Watertown, N. Y.	26 N. 38th St.
Thomas, Mabel Fern	East Orange, N. J.	120 S. 34th St.
Thompson, Albert Mark	Somerville, N. J.	3707 Walnut St.
Tomlinson, Arthur Henry	North Troy, N. Y.	202 S. 41st St.
Tomsuden, Henry Louis, Jr.	Brooklyn, N. Y.	Dorm. 377 Hopkinson
Tribe, Leland Foulger	Ogden, Utah	Dorm. 45 Bodine
Trott, Leonard Walter	Adelaide, South Australia	Dorm. 331 Franklin
Van Valin, Francis Paul	Fleming	3612 Locust St.
Vicente, Jose	Santurce, Porto Rico	3711 Woodland Ave.
Wagoner, David Kenneth	Alexandria Bay, N. Y.	109 S. 40th St.
Wainman, Leon	Utica, N. Y.	4039 Chestnut St.
Walsh, Francis Kyran	Troy, N. Y.	Dorm. 13 Morgan
Ward, Ralph Edgar	Union City	3800 Locust St.
Watts, Charles Starkey	Oswego, N. Y.	3737 Locust St.
Waugh, Richard Johnston	Galaz, Va.	3312 Walnut St.
Weaver, Gertrude Flora		
A.B., B.O. (Susquehanna)	Philadelphia	7103 Woodland Ave.
Webster, Thomas B. Reed	Hunters Hot Springs, Mont.	4039 Chestnut St.
West, Paul Sandt	Asbury Park, N. J.	3733 Locust St.
Weyand, Kenneth Earl Mathias	Red Bank, N. J.	109 S. 40th St.
White, John Lester	Chicago, Ill.	do
Whitesell, Abram Bruce	Hunlock Creek	3805 Spruce St.
Whitmarsh, Herbert DeForest	Binghamton, N. Y.	258 S. 38th St.
Wian, George Irvin	Lewistown	3952 Pine St.
Wilson, Joseph Clements	Amsterdam, N. Y.	4418 Larchwood Ave.
Wiltbank, Gilbert Mariner	Lewes, Del.	920 Spruce St.
Wright, Harry Bernard	Philipsburg	Dorm. 43 Morris
Zerfing, Louis William	Philadelphia	4718 Chester Ave.
Zimmerman, Miles Dewey	Pottsville	3703 Locust St.

## FIRST-YEAR CLASS.

Ace, Percy Henry	Nicholson	4041 Locust St.
Adams, Charles Kendrick	York	Dorm. 420 McKean
Adams, Raymond	New Bloomfield	4013 Locust St.
Aitken, William James	Dickson City	221 S. 36th St.
Aldrich, Carl Clark		
V.M.D. (Pennsylvania)	Clarks Summit	[80 Price Ave., Lansdowne]
Alford, Stuart Emerson	New York, N. Y.	3807 Spruce St.
Alleman, Horace Edward	Jenkintown	[231 Wyncote Road]
Andaloro, Salvatore Cataldo	Pittston	3921 Pine St.
Anderson, Lillian Sophia		
A.B. (Barnard)	Brooklyn, N. Y.	3943 Locust St.
Anderson, Rollin Hudson	Muncy	3323 Walnut St.
Anderson, Walter Joseph	Hoboken, N. J.	3702 Locust St.
Angstadt, Paul Wilson	Reading	4043 Locust St.
Aston, Edward Ralph	Kingston	Dorm. 32 Cox
Bailey, Adams	Mechanicville, N. Y.	3939 Pine St.



NAME.	RESIDENCE.	CITY ADDRESS.
Balistrock, Morris	Philadelphia	704 Green St.
Ball, George Dudley	Fayetteville, N. Y.	3723 Spruce St.
Bambrick, Harry Charles	Girardville	110 S. 38th St.
Barder, Charles Andrew	Scranton	3706 Spruce St.
Barker, George Earl	Manasquan, N. J.	Dorm. 23 Cox
Barron, John William	Peermont, N. J.	2812 Frankford Ave.
Batley, Herbert Leopold	Mandeville, Jamaica, B. W. I.	3707 Walnut St.
Beattie, John Dator	Warwick, N. Y.	Dorm. 421 McKean
Beck, Samuel Walter	New York, N. Y.	3715 Spruce St.
Bell, John Thomas	Punxsutawney	Dorm. 11 Wilson
Bernstein, David Randolph	Philadelphia	1621 S. 10th St.
Birmingham, Leo William	Girardville	10 S. 38th St.
Black, Harold Wharton	Bluefield, W. Va.	109 S. 40th St.
Black, William Earl	Lewistown	5936 Catherine St.
Blais, George Henry	Cohoes, N. Y.	Dorm. 24 Rodney
Bobst, Philip Thomas	Bethlehem	4029 Spruce St.
Bogart, Charles Anthony	Philadelphia	5719 Chester Ave.
Bohan, Edward Thomas	Plymouth	232 S. 40th St.
Bond, Maurice Casey	Ithaca, N. Y.	3701 Locust St.
Bowe, Charles Eypper	Weehawken, N. J.	3960 Pine St.
Bowman, Harold Daniel	Gouverneur, N. Y.	238 S. 38th St.
Bowmar, Carr Eston	Cheat Haven	3952 Pine St.
Bragin, Jules Wiedman	Brooklyn, N. Y.	3815 Spruce St.
Braslavsky, Hyman	Philadelphia	519 S. 4th St.
Brodie, Allan Gibson	Newark, N. J.	3912 Spruce St.
Brown, Charles Wesley	Philadelphia	620 S. 51st St.
Bruenn, Anna Louise Mayer	Catasauqua	3943 Locust St.
Buckley, Walter Edward	Branchdale	4043 Locust St.
Burlew, Fountain	Freneau, N. J.	3442 Chestnut St.
Buyer, Benjamin Metz, Jr.	Columbia	3444 Chestnut St.
Byron, John Burton	West Haven, Conn.	3267 Sansom St.
Cahill, John Vincent	Trenton, N. J.	Dorm. 10 Provost
Caldwell, James Marlin	Lewistown	244 S. 40th St.
Callahan, Gerald William	Albany, N. Y.	3942 Pine St.
Campbell, Oliver Randolph Perry	Bridgeton, N. J.	109 S. 38th St.
Cant, William James	Philadelphia	2542 N. 7th St.
Cattanach, James Shaw	Long Branch, N. J.	Dorm. 23 Cox
Clapper, Charles Arnold	Newburgh, N. Y.	4029 Spruce St.
Clark, Albert Francis	Philadelphia	2011 Christian St.
Clarke, Arthur Grey	Denver, Col.	Dorm. 32 Bodine
Clary, Francis Joseph	Dundee, N. Y.	244 S. 40th St.
Colon, Amado Bernardo	Arecibo, Porto Rico	3711 Woodland Ave.
Cook, William Alvin	Kingston, N. Y.	4048 Walnut St.
Cooper, Donaldson Beale	Philadelphia	72 W. Tulpehocken St., Gtn.
Cooper, Herbert Kenty	Brownstown	3703 Locust St.
Cooper, John Booth	Nanticoke	3934 Pine St.
Corbo, Angelo Joseph	Dunmore	3707 Locust St.
Croke, Augustine Ethelbert	Hull, England	1832 S. Logan Sq.
Croke, Francis Phillip	do.	do.
Cronauer, Edward Anthony	Gallitzin	3945 Baltimore Ave.
Crosier, James Alexander	Bovina, N. Y.	448 S. 43d St.
Crysler, Earl Martin	Dexter, N. Y.	190 S. 40th St.
Cummings, Willis Nelson B.A. (Fisk)	Galveston, Tex.	26 N. 38th St.
Curry, Walter Heritage	Woodbury, N. J.	[115 Holroyd Place]
Daleccio, Alejandro	Juana Diaz, Porto Rico	3711 Woodland Ave.
Davey, Robert Press	Laurel Springs, N. J.	[Stafford Ave.]
Davies, Isaac Edmond	Lansford	3612 Locust St.
Davis, Lawrence Ross	Narberth	[224 Haverford Ave.]
Davis, Rees Himes	Reading	107 S. 40th St.
Delehanty, James Bernard Charles	Southbridge, Mass.	4048 Walnut St.
Diez, Ricardo Alfonso	Panama City, Panama	3729 Spruce St.
Dineson, Magnus Jepson	Perth Amboy, N. J.	3805 Spruce St.
Ditunno, John Frank	Philadelphia	1226 S. 12th St.
Donahue, Raphael Augustus	New Brunswick, N. J.	3805 Spruce St.
Donnelly, Joseph Cornelius	Pittston	3729 Locust St.
Donovan, John Arnold	Rochester, N. Y.	3944 Pine St.
Dowd, Francis Erwin	Rome, N. Y.	3721 Locust St.



NAME.	RESIDENCE.	CITY ADDRESS.
Duncan, James William	Lockport, N. Y.	3710 Locust St.
Dusinberre, Adelbert Bryan	Geneva, N. Y.	218 S. 37th St.
Dyer, William McClure	Trenton, N. J.	[34 Cumberland Ave.]
Edmunds, Edwin Allen	Harrisburg	3702 Spruce St.
Egan, Richard Maurice	Philadelphia	5631 Wyalusing Ave.
Eighmey, Henry Sidney	Cohoes, N. Y.	Dorm. 24 Rodney
Elderkin, Ellsworth Jay	New Rochelle, N. Y.	228 S. 38th St.
Ellis, Milton Clarkson Lightner	Muncy	3323 Walnut St.
Emmons, Vernon Labor	Asbury Park, N. J.	3447 Walnut St.
Englert, George Aegidius, Jr.	Catskill, N. Y.	920 S. 49th St.
Epstein, Leo	Camden, N. J.	[433 Atlantic Ave.]
Evans, John Clifford	Paterson, N. J.	Dorm. 40 Thomas Penn
Farrell, Charles Bernard	Johnson City, N. Y.	232 S. 40th St.
Farrow, Hubert Miller	Shamokin	228 S. 38th St.
Ferguson, Joseph James	Wilkes-Barre	3801 Spruce St.
Fischer, Ferdearle Joseph	Brooklyn, N. Y.	1742 N. 16th St.
Fischer, Harold	Sharon	3612 Locust St.
Ford, Bernard Joseph	Nanticoke	3921 Pine St.
Fordham, Merritt Leon	Rio de Janeiro, Brazil, S. A.	4242 Pine St.
Frayne, Ellwood Van Aman	Wilkes-Barre	426 S. 42d St.
Friday, Ernest Dale	Osceola Mills	3713 Locust St.
Friedman, Robert	Hoboken, N. J.	4041 Sansom St.
Friedmann, Jack	Brooklyn, N. Y.	3815 Spruce St.
Gallagher, Leo Joseph	New York, N. Y.	3445 Walnut St.
Gerstner, Samuel Berton	Brooklyn, N. Y.	3815 Spruce St.
Gette, Frank Hamer	Philipsburg	109 S. 40th St.
Gilbert, Elton George	Bath	3745 Locust St.
Gillie, Robert Ewing	Bernardsville, N. J.	3719 Locust St.
Goldblatt, Baines Alvoys	Rochester, N. Y.	3413 Walnut St.
Goldfield, James Edward	Philadelphia	423 Ritner St.
Goldstein, Jacob	Woodhaven, L. I., N. Y.	3911 Pine St.
Golove, Louis	Philadelphia	2412 N. 31st St.
Good, Chester Abraham	New Cumberland	3904 Baltimore Ave.
Goodfriend, David Joseph	Philadelphia	1633 Federal St.
Goodman, Irving Isadore	Newark, N. J.	3933 Pine St.
Gordon, Reed Robert	Cobleskill, N. Y.	25 S. Van Pelt St.
Grant, Harold Cram	Bangor	Dorm. 382 Lippincott
Gray, George Westphal	Springfield, Mass.	3960 Pine St.
Greeson, Harlan Bailey	Fairbury, Neb.	232 S. 38th St.
Groth, Geneva Elfreda	Philadelphia	3436 N. 13th St.
Haffner, Frederic LeRoy	New York, N. Y.	3807 Spruce St.
Hager, Fred Alonzo	Johnstown	3641 Locust St.
Haig, Norman Russell	Philadelphia	5012 Catharine St.
Haight, Loyd Romaine	Ritzville, Wash.	3943 Locust St.
Hammond, Hollis Henry	Lake George, N. Y.	101 S. 41st St.
Handler, Aaron Isadore	Harrisburg	4041 Locust St.
Harris, Courtney Sinclair	Westwood, N. J.	3944 Pine St.
Harris, Irving Helmann	Bayonne, N. J.	Dorm. 24 Cox
Harris, William Theophilus, Jr.	Narberth	123 S. 41st St.
Hatch, Frederic Austin	Brewer, Me.	Dorm. 31 Provost
Haverkost, William Amos	Mahanoy City	3952 Pine St.
Haymond, Walter Creed	Springville, Utah	3714 Locust St.
Henderson, Archibald Ballintyne	Yonkers, N. Y.	3328 Chestnut St.
Henderson, Howard Cortlandt	Vineland, N. J.	232 S. 38th St.
Herrity, Michael Alfonsus	Ashland	10 S. 38th St.
Hess, Ralph Bond	Bethlehem	4029 Spruce St.
Hilditch, Leon Moore	Thompsonville, Conn.	Dorm. 38 E. F. Smith
Hiller, Albert Walter	Rochester, N. Y.	3314 Walnut St.
Hinchman, Henry Carlisle, Jr.	Johnstown	Dorm. 49 E. F. Smith
Hinterleiter, Harold Esser	Carlisle	3933 Pine St.
Hodgman, D. Munger	Princeton, Ill.	3415 Walnut St.
Hoeffer, Frederick Henry	Hammonton, N. J.	328 Vine St.
Holt, Augustus Bacon	Westport, N. Y.	Dorm. 48 Thomas Penn
Houghton, William George	Philadelphia, N. Y.	3944 Pine St.
Howard, Ralph Acker	Everett	3718 Locust St.
Hummel, Frederick William	Greenwich, Conn.	113 S. 38th St.
Hutchinson, George Willis	Augusta, Me.	3710 Spruce St.
Hutchison, Horace Cook	Johnstown	210 S. 36th St.
Hyde, John Francis	Camden, N. J.	[1600 S. 6th St.]

NAME.	RESIDENCE.	CITY ADDRESS.
Irvin, William Harrison Reem	Altoona	1512 Montgomery Ave.
Iveney, Kenneth Robert	Northeast Harbor, Me.	3935 Pine St.
Ivory, Thomas Henry	Norwich, N. Y.	232 S. 40th St.
Jagust, Samuel Henry	New York, N. Y.	3911 Pine St.
James, William Evans	Olyphant	3328 Chestnut St.
Jenkins, William Henry	Englewood, N. J.	26 N. 38th St.
Jenney, Edward Burt	Bennington, Vt.	Dorm. 50 E. F. Smith
Jennings, Edward Joseph	Trenton, N. J.	3711 Walnut St.
Johnson, Hubert Ray	Falconer, N. Y.	3710 Spruce St.
Jones, Ainsley Lewis	Mariner's Harbor, S. I., N. Y.	Dorm. 220 McKean
Jones, Harold Gunton	Bloomsburg	3745 Locust St.
Jones, Horace Edgar	Portland, Ind.	3935 Pine St.
Judge, Newell Thomas	Carbondale	2011 Christian St.
Kay, Alfred Lake	New Haven, Conn.	3934 Pine St.
Keator, Richard Robinson	Fleischmanns, N. Y.	261 S. 38th St.
Keeler, Lawrence Stanley	Thompsonville, Conn.	Dorm. 37 Rodney
Kegler, Edgar	Locust Dale	Dorm. 329 Franklin
Keigh, Arthur Lee	Utica, N. Y.	3717 Spruce St.
Kelly, Frank Wheaton	Lake Carey	Dorm. 224 McKean
Kelly, Thomas Francis	Parsons	3801 Spruce St.
Kessler, Milton Mendel	Seattle, Wash.	3933 Pine St.
Kilbourn, George Lewis	Bristol, Vt.	4029 Spruce St.
Killen, Joe Wheeler	Binghamton, N. Y.	3733 Spruce St.
Killmer, Russell Vincent	Ponda, N. Y.	[Welsh Road and Summit Ave., Willow Grove]
King, Edward Carlisle	Grove City	3703 Walnut St.
Knight, Gerald Thomas	Scranton	3403 Walnut St.
B.S. (St. Johns)	Carbondale	268 S. 38th St.
Koenig, Ewing Mears Douglas	South Bethlehem	228 S. 38th St.
Kresge, Norman Missimer	Danbury, Conn.	3723 Spruce St.
LaCava, Dominic Vincent	Bridgeport, Conn.	226 S. 38th St.
Lannon, William Charles	Canton, China	3645 Locust St.
Lau, Tai Chi	Canton, Ohio	228 S. 38th St.
Lerch, Guy Schubert	Quito, Ecuador, S. A.	3712 Spruce St.
Leroux, Rafael Romo	Philadelphia	517 N. Franklin St.
Lieberman, Isadore Marcus	do.	228 Pine St.
Lipkowitz, William	Newton Highlands, Mass.	Dorm. 214 Foerderer
Littig, Sibley	Jamestown, N. Y.	Dorm. 433 Class of '87
Lofgren, Carl Axel Raymond	Carbondale	3701 Locust St.
Loftus, James Banks	New Castle	107 S. 40th St.
Lowery, Robert Paul	Roseland, N. J.	3605 Locust St.
Luisi, Anthony	Philadelphia	252 Apsley St.
McCafferty, Philip Vincent	Claremont, N. H.	109 S. 40th St.
McDuffee, Harold Ford	Ridley Park	[211 E. Ridley Ave.]
McKernan, John Faber	Harrison, N. J.	223 S. 36th St.
McLaren, George Dewey	Altoona	3956 Pine St.
Maglaughlin, Stuart Hamlin	Urmiah, Persia	3273 Chancellor St.
Malick, Jean Babon	Scranton	3722 Walnut St.
Malone, James Leo	Johnson City, N. Y.	3950 Pine St.
Manning, William Augustus	Philadelphia	1327 Morris St.
Manning, William Perry	Butler	Dorm. 24 Graduate
May, Norman Leroy	Carbondale	268 S. 38th St.
May, Walter Charles	Long Eddy, N. Y.	109 S. 40th St.
May, William Watson	New Cumberland, W. Va.	3723 Spruce St.
Mercer, James Raymond	Brooklyn, N. Y.	3712 Locust St.
Miethke, Arthur George	New York, N. Y.	4233 Baltimore Ave.
Mintz, Herman	do.	3709 Chestnut St.
Mishkind, William Dewey	White Plains, N. Y.	Dorm. 415 Franklin
Mitchell, Joseph Maxwell	Gowen City	3745 Locust St.
Mohn, Peru Theophilus	Stamford, Conn.	3415 Walnut St.
A.B. (Muhlenberg)	Brooklyn, N. Y.	4039 Chestnut St.
Moll, Philip Henry	Sag Harbor, N. Y.	3712 Locust St.
Mooney, Joseph Anthony	Middletown, N. Y.	3710 Locust St.
Morris, Harold Braban	Pittston	3815 Spruce St.
Morris, James Harold	Newark, N. J.	3434 Walnut St.
Moskowitz, Maurice	Womelsdorf	3943 Locust St.
Motzenbecker, Francis Peter	Red Bank, N. J.	228 S. 38th St.
Moyer, Laura Mary		
Murdock, Theodore Rose		

NAME.	RESIDENCE.	CITY ADDRESS.
Murphy, Charles Shannon	Ogdensburg, N. Y.	3905 Walnut St.
Murray, Marie Smith	Brooklyn, N. Y.	3263 Sansom St.
Navarro, Julio Humberto	Guayaquil, Ecuador, S. A.	1718 Green St.
Newgarden, Jacob Stanley	New York, N. Y.	3459 Woodland Ave.
Newitt, Ervin Sprague	Dorranceton	Dorm. 431 Class of '87
Newman, Eugene Warren	Red Bank, N. J.	228 S. 38th St.
Newmark, Arthur	Philadelphia	2839 Girard Ave.
Neylon, James	Brooklyn, N. Y.	3719 Spruce St.
Niebrzydowski, Roman Paul	Whites Valley	4330 Cresson St.
O'Boyle, Leo John	Dunmore	3605 Locust St.
O'Boyle, Thomas Francis	do.	do.
O'Connor, Frederick Harrison	Jamaica, N. Y.	3605 Locust St.
O'Neil, Bernard Thomas	Westchester, N. Y.	3614 Chestnut St.
O'Neil, Edmond Mark	Hornell, N. Y.	3904 Baltimore Ave.
Osmond, James Franklin, Jr.	Ardmore	[26 Wyoming Ave.]
Otto, Edwin Walter	New York, N. Y.	263 S. 38th St.
Owen, Russell E.	Nyack, N. Y.	3703 Locust St.
Padwe, Walter	Jersey City, N. J.	3805 Spruce St.
Padula, James Louis	Newark, N. J.	4029 Spruce St.
Parker, John Wesley, Jr.	Philadelphia	6120 Greene St., Gtn.
Patton, Charles Heston	West Chester	[223 W. Washington St., West Chester]
Pearlman, Aaron	Bangor	3815 Spruce St.
Peebles, John Donald	Titusville	3904 Baltimore Ave.
Perin, Joseph Alexander, Jr.	East Orange, N. J.	3715 Locust St.
Perlman, Bernard	Philadelphia	5176 Viola St.
Peterson, Ernest Werner	Perth Amboy, N. J.	3805 Spruce St.
Pierson, Alfred Francis	Vineland, N. J.	109 S. 38th St.
Proper, George Henry	Saratoga Springs, N. Y.	3960 Pine St.
Putney, Raymond Ernest	Phoenix, Ariz.	3745 Locust St.
Pyle, Joseph Martin	Cossart	3537 Locust St.
Quintana, Edward	Bogota, Colombia, S. A.	310 S. 40th St.
*Ramirez, Lisandro	Mayaguez, Porto Rico	3711 Woodland Ave.
Reilly, Edmund Michael	Susquehanna	3950 Pine St.
Reilly, John Anthony	Springfield, Mass.	4027 Chestnut St.
Rich, George Glen-Allan	Northport, L. I., N. Y.	3721 Locust St.
Riggall, Charles Wilson, Jr.	Philadelphia	2013 N. 29th St.
Ritz, Donald Zerfing	Scranton	3706 Spruce St.
Rivkin, Joseph	Brooklyn, N. Y.	3911 Pine St.
Rochlin, Morris	Passaic, N. J.	3815 Spruce St.
Rodriquez, Armando Rogerio	Camaguey, Cuba	1636 Green St.
Roll, Charles Weissert	Trenton, N. J.	3711 Walnut St.
Ronkin, Samuel	Brooklyn, N. Y.	403 S. 40th St.
Rosenberg, David	Philadelphia	546 W. Moyamensing Ave.
Ross, Nelson Carlyle	Rochester, N. Y.	3413 Walnut St.
Rowe, Murray Everton	Concord, N. H.	3707 Locust St.
Russell, James David	Renova	221 S. 36th St.
Salmon, Russell Owen	Port Jervis, N. Y.	3930 Pine St.
Salomon, Milton	Brooklyn, N. Y.	403 S. 40th St.
Samuels, Clayton Harry	Philadelphia	1511 W. Susquehanna Ave.
Scanlan, Francis Henry	do.	5212 Greene St., Gtn.
Scheps, Gerson	Elizabeth, N. J.	3719 Locust St.
Schleede, Walter Christian	Ulster Park, N. Y.	4029 Spruce St.
Schneyer, Benjamin	Philadelphia	7412 Buist Ave.
Schweidle, William Nathaniel	Shenandoah	1821 N. 33d St.
Schwingen, William Benjamin	Wilkes-Barre	3717 Locust St.
Scull, Raymond William Tobias	Lancaster	4043 Locust St.
Seibert, Charles George	Bloomfield, N. J.	Dorm. 50 Memorial Tower
Shawmut, William Moses	Everett, Mass.	6 S. 36th St.
Shea, Walter Joseph	Hoosick Falls, N. Y.	639 S. Conestoga St.
Silva, Antonio	Cabo Rojo, Porto Rico	3711 Woodland Ave.
Silverman, Leo Reuben	South Bethlehem	927 Girard Ave.
Skeffington, Mark John, Jr.	Philadelphia	1838 N. 11th St.
Smith, George Allen	Meriden, Conn.	3703 Locust St.
Smith, Kenneth Smedley	Philadelphia	5109 Chester Ave.
Smith, Victor Hugo	Seattle, Wash.	5241 Walnut St.
Sneidman, Earle	Philadelphia	5801 Chestnut St.
Snyder, Samuel	do.	1743 W. Cumberland St.

\* Withdrawn.

## STUDENTS

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NAME.	RESIDENCE.	CITY ADDRESS.
Spencer, Lyman Wingate	Carbondale	368 S. 38th St.
Sprafkin, Rubin	New York, N. Y.	735 McClelland St.
Stannard, Andrew Mackie	Jersey City, N. J.	3960 Pine St.
Stanton, Richard Thomas	Millbrook, N. Y.	3956 Pine St.
Stout, Earl William	Renova	221 S. 36th St.
Sullivan, Eugene Patrick	Greenfield, Mass.	4013 Locust St.
Sullivan, Samuel Francis	Stroudsburg	4041 Locust St.
Symonds, Roland	Port Jervis, N. Y.	Dorm. 46 Thomas Penn
Taylor, John Raymond	Hazleton	4043 Locust St.
Taylor, Reginald Thorne	Astoria, L. I., N. Y.	Dorm. 24 E. F. Smith
Taylor, Robert Cowles	Newport News, Va.	101 S. 41st St.
Thatcher, George King	Kingsville, Ohio	3618 Chestnut St.
Thompson, Ronald Lloyd	Bloomfield, N. J.	3745 Locust St.
Tinnerhohn, Ivar August	Schenectady, N. Y.	3943 Locust St.
Tomsuden, Louis Ernst	Brooklyn, N. Y.	Dorm. 377 Hopkinson
Towey, Hugh Ignatius	Newark, N. J.	3607 Locust St.
Traurig, Max	do.	225 S. 37th St.
Trevaskis, Lester Phillips	Freeland	226 S. 38th St.
Turrentine, Julian Archalus	Saugerties, N. Y.	113 S. 38th St.
VanHorn, Dallas McHenry	Churchville, N. Y.	3805 Spruce St.
VanVale, Edwin Glazier	Walton, W. Va.	3711 Walnut St.
Viverito, Joseph Aloysius	Brooklyn, N. Y.	1541 S. 8th St.
Vought, Kimber Earle	Erie	3743 Locust St.
Waas, Clifford Jacob	Hammonton, N. J.	[115 Central Ave.]
Wagnetz, Edward	Philadelphia	118 W. Allegheny Ave.
Walker, Milton Avory	Millville, N. J.	Dorm. 23 Morgan
Walter, Robley DaCosta		
B. S. (Muhlenberg)	Bethlehem	3719 Spruce St.
Warshawsky, Charles Lincoln	Newark, N. J.	3805 Spruce St.
Waterhouse, Robert Gordon	Pasadena, Cal.	Dorm. 40 E. F. Smith
Welch, Leonard Lee	Wadley, Ala.	3607 Sansom St.
Wenger, Christian McCloud	Brownstown	3703 Locust St.
Westcott, Wilbert, Jr.	Perth Amboy, N. J.	Dorm. 57 Coxe
Weysser, Robert Eugene Gallus	Mauch Chunk	4027 Chestnut St.
Williams, Oscar	Nanticoke	3942 Pine St.
Wilson, Ervin Henry	Piercefield, N. Y.	107 S. 40th St.
Wilson, John Henry	Salt Lake City, Utah	3714 Locust St.
Winslow, William Walter	Philadelphia	5241 Walnut St.
Winter, Gordon Richmond	Port Dickinson, N. Y.	3733 Spruce St.
Wolff, Sidney David	Kingston, N. Y.	4029 Spruce St.
Yates, Joseph Francis		
A. B. (St. Joseph's)	Philadelphia	2408 W. Lehigh Ave.
Ycaza, Diego Isaac de	Panama City, Panama	3729 Spruce St.
Yetter, Edgar Stayer	Sharon Hill	[103 Clifton Ave., Sharon Hill]
Yost, Henry Stewart	Reading	107 S. 40th St.
Youakim, Tewfick	Cairo, Egypt	3948 Pine St.
Zabel, John Frederick, Jr.	Rochester, N. Y.	36 N. 36th St.
Zerby, Harry Ellsworth	Steelton	3929 Baltimore Ave.
Zook, Paul Huey	Harrisburg	254 S. 38th St.

## SPECIAL STUDENTS.

Jespersen, Augusta Helen	Kallundborg, Denmark	4504 Kingsessing Ave.
Tandlage (Copenhagen)		
Mañes, Ciriaco Juan		
M. D. (Madrid)		
Odontologo (Madrid)	Salamanca, Spain	3719 Locust St.
Novaes, Sylvio Manuel		
Cirurgião Dentista (São Paulo)	São Paulo, Brazil	231 S. 40th St.

## SUMMARY.

Students of the Third Class.....	226
Students of the Second Year Class.....	249
Students of the First Year Class.....	330
Special Students.....	3
Total.....	808



## DENTAL GRADUATE SCHOOL—SESSION 1916-17.

NAME.	RESIDENCE.	CITY ADDRESS.
Cashman, Eugene Vincent D.D.S. (Pennsylvania)	Brooklyn, N. Y.	261 S. 38th St.
Coulter, John Donald D.D.S. (Pennsylvania)	Pawling, N. Y.	3800 Locust St.
Dunning, Lester Barclay D.D.S. (Pennsylvania)	Peekskill, N. Y.	4039 Chestnut St.
Flensburg, Ebba Tandlage (Copenhagen)	Ringsted, Denmark	4504 Kingsessing Ave.
Kaufman, Frank D.D.S. (Pennsylvania)	New York, N. Y.	3610 Walnut St.
Knox, Albert D.D.S. (Pennsylvania)	Newport, R. I.	3800 Locust St.
Leite, Raul D.D.S. (Pennsylvania)	São Paulo, Brazil	1011 S. 46th St.
Pasch, Frederick Theodore D.D.S. (Pennsylvania)	Brooklyn, N. Y.	4039 Chestnut St.
Peck, Gordon Cadwell D.D.S. (Pennsylvania)	Glens Falls, N. Y.	3442 Chestnut St.
Rudy, Leslie Neal D.D.S. (Western Dental)	Salt Lake City, Utah	221 S. 36th St.
Silva, Oswaldo Franco da Cirurgião Dentista (Rio de Janeiro)	Bage, Brazil, S. A.	107 S. 40th St.
Uno, Takashi D.D.S. (Tokio Dental College)	Tokio, Japan	4031 Baring St.
Velando-Chaves, Carlos Cirujano Dentista (Lima)	Peru, S. A.	4323 Walnut St.

Total..... 13



## GEOGRAPHICAL SUMMARY OF DENTAL STUDENTS.

Alabama.....	1	Georgia.....	1	Panama.....	6
Argentina.....	2	Germany.....	1	Pennsylvania....	292
Arizona.....	1	Guatemala.....	1	Persia.....	1
Australia.....	8	Illinois.....	2	Porto Rico.....	8
Brazil.....	2	Indiana.....	1	Rhode Island....	1
California.....	1	Iowa.....	3	Russia.....	2
Canada.....	3	Italy.....	1	San Salvador....	1
Chile.....	2	Jamaica, B. W. I.	3	Scotland.....	1
China.....	1	Kansas.....	1	South Africa....	1
Colombia.....	3	Maine.....	11	South Carolina..	2
Colorado.....	1	Massachusetts... 13		South Dakota... 1	
Connecticut....	27	Michigan.....	1	Spain.....	1
Costa Rica.....	1	Montana.....	1	Sweden.....	1
Cuba.....	1	Nebraska.....	1	Tennessee.....	2
Delaware.....	1	Nevada.....	1	Texas.....	1
Denmark.....	1	New Hampshire.. 2		Utah.....	4
Dist. of Columbia	1	New Jersey.....125		Vermont.....	3
Ecuador.....	2	New York.....223		Virginia.....	3
Egypt.....	1	Nicaragua.....	2	Washington... 6	
England.....	3	North Carolina.. 1		West Virginia... 3	
Florida.....	1	Ohio.....	6		
France.....	2	Oregon.....	1	Total.....	808

## STUDENT DENTAL SOCIETIES.

The JAMES TRUMAN, EDWIN T. DARBY, and EDWARD C. KIRK Dental Societies and MATTHEW H. CRYER Oral Surgical Society, were organized for mutual benefit in the study of Dentistry and Oral Surgery, as a means of training in the management of dental professional organizations, to foster the spirit of individual investigation and research, and to promote social intercourse and good fellowship among the members. Every member of the Societies in good standing, on graduating from the School of Dentistry, receives a certificate. Regular meetings are held every two weeks during the session.

SOCIETY OF THE ALUMNI OF THE SCHOOL OF  
DENTISTRY.

*President.*—Dr. Alfred P. Lee.

*Vice-Presidents.*—Dr. Walter F. Barry, Dr. Emerson R. Sausser,  
Dr. William L. MacDonnell.

*Secretary-Treasurer.*—Dr. Charles W. Swing, 1623 Walnut Street,  
Philadelphia.

Every graduate of the School of Dentistry in good standing is considered to be a member of this Society, and will be sent bills for dues. Any member who shall for five years pay into the treasury the sum of three dollars annually, can, by payment of \$1.50, secure a membership certificate.

The annual meeting is held on the Friday previous to Commencement, and is followed in the evening by a collation.

*Alumni are requested to send to the Secretary notice of change of residence, or other information likely to be of service to the Society.*

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HOUSTON HALL.

Houston Hall is the home of the Houston Club to membership in which any member of the University is eligible.

Its purposes are to provide for the students a place where all may meet socially on common ground, and to furnish every available facility for healthy recreation and amusement in leisure hours. The equipment of the Hall includes a reading-room, with large number of periodicals and newspapers; smoking-rooms, billiard and pool tables, tables for chess and checkers, a correspondence room; athletic trophy rooms; a large auditorium with grand organ; rooms for the University papers and other organizations; a dark room for amateur photographers and many other rooms for general purposes.

The Christian Association, which has its headquarters in Houston Hall, is prepared to furnish prospective students, through its Secretary, full information with regard to the various undergraduate social activities, both secular and religious.

## DEGREES.

At a Public Commencement held Wednesday, June 21, 1916, at the Metropolitan Opera House, the Degree of Doctor of Dental Surgery was conferred by EDGAR F. SMITH, Chem.D., Sc.D., L.H.D., LL.D., Provost, upon the following candidates:

NAME.	RESIDENCE.	STATE.
Abadia, Luis Enrique	Sona	Republic of Panama
Allen, John Stafford	Providence	Rhode Island
Anderson, Henry Brackenridge	Tarentum	Pennsylvania
*Angle, James Cornelius	Kingston	New York
Auten, Frederick Probasco, Jr.	Trenton	New Jersey
Baines, Fred. Arthur	Brooklyn	New York
Balcom, Harold Chipman	do.	do.
Barber, Henry Ulysses, Jr.	Bolton	do.
Barnett, Frank Thomas Marritt	Camden	New Jersey
Barth, Jay Fred	Syracuse	New York
Beal, Moses Clay	Brewster	do.
Bietsch, John Pieffer	Chambersburg	Pennsylvania
Blackman, Edward Diamant	Pitman	New Jersey
Blakeman, Earle Chatfield	Mount Vernon	New York
Bomenblit, Samuel Herbert	Philadelphia	Pennsylvania
Bouden, Harry Elwood	do.	do.
Bouton, Russ Rowe	Pine Plains	New York
Bowen, Horacio	Chone	Ecuador, S. A.
Bragg, Vincent Elon Davis	Branford	Connecticut
Braley, Harrison Irving	North Creek	New York
Brickman, Franklin Louis	Philadelphia	Pennsylvania
Burgess, Charles Leslie	Cootamundra	New South Wales, Australia
Burleigh, Andrew Leo	Plattsburg	New York
*Camp, Paul Brown	Jamestown	do.
Cashman, Eugene Vincent	Brooklyn	do.
Castillo, Esteban del	Manzanillo	Cuba
Chapman, Chester Rathbun	Mystic	Connecticut
Chapman, Harry Leigh	Dover	New Hampshire
Cobbett, Louis Alvah	Sanford	Maine
Coll, Luis Francisco	Arecibo	Porto Rico
Collins, George Allen Buckalew	Freehold	New Jersey
Coulter, John Donald	Pawling	New York
Croll, Faber Witman	Camden	New Jersey
Cunningham, Louis Braby	Wampum	Pennsylvania
*Curtis, Lawrence	Brookfield Center	Connecticut
Dalton, George Francis	Syracuse	New York
Davis, Leland Carlton	Plainfield	New Jersey
Delehanty, Henry Michael	Southbridge	Massachusetts
*De Pass, Kingsley	St. Andrew's	Jamaica, B. W. I.
Diamond, Hyman	Bronx	New York
Dolan, Charles Joseph	Newark	New Jersey
Dolan, Walter Raymond	Stamford	Connecticut
Dumbleton, Frank, Jr.	Camden	New Jersey
Dunn, Lawrence Joseph	New York	New York
Dunning, Lester Barclay	Peeckskill	do.
Durand, Maurice Nelson	Philadelphia	Pennsylvania
*Duxbury, Russell Kerley	Pine Plains	New York
Edelman, Eli	Philadelphia	Pennsylvania
Ennis, LeRoy Massey	do.	do.
Everhard, Will Duguid	Miller	South Dakota
Farkas, George Furnan	Schenectady	New York

\* With Honors.

NAME.	RESIDENCE.	STATE.
Farrell, John Henry	Johnson City	New York
Fiedelbaum, Benjamin	Brooklyn	do.
Fulford, Edwin Reinke	Spur Tree, Manchester	Jamaica, B. W. I.
Gallien, George Bradley	Philadelphia	Pennsylvania
Gardenier, Harold Calvin	Hillsdale	New Jersey
Gardner, Norman Edwin	Akron	Ohio
Glückman, Jacob Nathaniel	Brooklyn	New York
Granger, Augustus Turpin	Newark	New Jersey
Griffin, William Gerald	South Hadley Falls	Massachusetts
Grigg, Leon Allison	Butte	Montana
Hamilton, Henry Clare	North Branch	New Jersey
Hand, Roy	Eldora	do.
Hankins, Ralph Herbert	Worcester	Massachusetts
Hayner, Frank Barnfather	Waterford	New York
Hazen, Bryant Elbridge	Springfield	Massachusetts
Henry, Russell Alger	Tower City	Pennsylvania
Higgins, Charles Stephen	Bar Harbor	Maine
Hillsley, John Jacob	Middleburg	New York
Hollingshead, Willard Joseph	Bayonne	New Jersey
Hopper, Craft Ackerman	Butler	do.
Hudson, Claude Newell	Derby	Connecticut
Hughes, John Clifford	Gardner	Massachusetts
Hunt, Wilson G.	Asbury Park	New Jersey
Hussa, Edwin Frederick	Rockaway	do.
Husted, Milton Edison	Weehawken	do.
Icaza, M. Edmundo	Guayaquil	Ecuador, S. A.
Jaquish, Francis Meredith	Mansfield	Pennsylvania
Jiencke, Karl	Berlin	Germany
Johnson, Ernest Charles	Laconia	New Hampshire
*Johnstone, Maxwell James	Port of Spain	Trinidad, B. W. I.
Jutton, Daniel	Syracuse	New York
Kane, Howard Edward	Meriden	Connecticut
†Kaufman, Frank	New York	New York
Kauffman, Omar W.	Waynesboro	Pennsylvania
Knox, Albert	Newport	Rhode Island
†Lasher, Matthew Connor	Valatie	New York
Lacerda, Ernesto Julio de	Lisbon	Portugal
Lahey, Walter Tabor	Jersey City	New Jersey
Landrigan, Alfred William	Troy	New York
Ledermann, Fritz Ernst		
Lee, Matthew Henry	Watervliet	do.
Leite, Raul	Sao Paulo	Brazil, S. A.
Lejeune, Emile Lambert Joseph	Glons (Liege)	Belgium
Lenzer, Reuben	East Melbourne	Victoria, Australia
Levenson, Joseph	Woodbine	New Jersey
Lippert, Augustus Robert	Goshen	New York
McCann, Martin	New Castle	Pennsylvania
McDonnell, Patrick James	Adams	Massachusetts
McElnea, William Herbert	West Orange	New Jersey
McMullen, George Charles	Norwich	New York
MacLachlan, Alan	Philadelphia	Pennsylvania
Mann, Hyman	do.	do.
Manning, William Francis, Jr.	Springfield	Massachusetts
Meinhard, Harry Rogers	Kingston	New York
Merrill, John Rogers, Jr.	Paterson	New Jersey
Mierley, Oscar Monroe	Petersburg	Pennsylvania
†Miller, William Charles	Brooklyn	New York
Molina, Ernesto Enrique	Guatemala City	Guatemala, C. A.
Molina, Eudoro	Bogota	Colombia, S. A.
Molnar, Ludwig Stephen	Stapleton	Staten Island, N. Y.
Morgan, Mark Edward	Potsdam	New York
Myers, Arthur Hitchcock	Livonia	do.
Nethersole, Sidney Clarke	Kingston	Jamaica, B. W. I.
Neurohr, Ferdinand Gustave	Brooklyn	New York
Niquille, Paul Louis	Fribourg	Switzerland
Nisley, John Croll	Middletown	Pennsylvania

\* With Honors.

† Conferred in January, 1917, as of the Class of 1916.



NAME.	RESIDENCE.	STATE.
Pancoast, Albert Bright	Riverside	New Jersey
Parsons, Joseph Harold	Farrel	Pennsylvania
Patterson, Nathan James	Hoosick Falls	New York
Patton, Robert Van	Pendleton	Oregon
Peaslee, Edward Warren	Gardiner	Maine
Peck, Gordon Cadwell	Glen Falls	New York
Peeso, James Bruce	Mount Vernon	do.
Phillips, Fred Kenneth	Poultney	Vermont
Polensky, John	Perth Amboy	New Jersey
Pollock, George	Jersey City	do.
Price, Robert Emmett	Foxburg	Pennsylvania
Raker, Conrad Joseph M.	Shamokin	do.
Reitzel, Fred Gustave	Newark	New Jersey
Rockafeller, Eugene Francis	Asbury Park	do.
Roosa, Earle	Goshen	New York
Rosenthal, Maxwell Jack	Bridgeport	Connecticut
Roth, David William	Richmond	Staten Island, N. Y.
Ruberg, Morris	Philadelphia	Pennsylvania
Ruddy, Charles Aloysius	Hudson	do.
Rudine, Clifford	Salt Lake City	Utah
Rupp, Adolph	Weehawken	New Jersey
Ryan, Charles Frederic	Bennington	Vermont
Saunders, Edwin Elmer	Westfield	New Jersey
Schechter, Nathaniel Harris	New York	New York
Schmidt, John Eibe	Brooklyn	do.
Searles, Wallace Bloomfield	Katonah	do.
Shannon, Charles Joseph Aloysius	Philadelphia	Pennsylvania
Sheakley, Clark Alexander	Linesville	do.
Sierra, Eduardo	Guantanamo	Cuba
Simonetti, David Michael	Brooklyn	New York
Slaff, Samuel	Passaic	New Jersey
Smith, John	Taunton	Massachusetts
Smith, William Louis	Bridgeport	Connecticut
Solomon, Howard Hemsath	Zehner	Pennsylvania
Sontheimer, Albert Francis	Rome	New York
Stern, Maurice May	New York	do.
Stout, Eugene Everett	Renovo	Pennsylvania
Swartzberg, Samuel Edwin	Philadelphia	do.
Tagman, Eugene Alfred	Alstatten	Switzerland
Thomas, George Pryor	Nesquehoning	Pennsylvania
Thomas, William Raymond	Wilkes-Barre	do.
Thomasmeyer, Raymond Henry	Syracuse	New York
Treichler, Walter Wesley	Middletown	Pennsylvania
Van Aerdle, Michael Raphael	Autryve	Belgium
Vanderbeek, James Lawrence	Englewood	New Jersey
Vazquez, Antonio	Cienfuegos	Cuba
Verheyen, Carl William	Butte	Montana
Walker, Leslie	Ballarat	Victoria, Australia
Walsh, Richard Joseph	Mt. Airy	Pennsylvania
Webb, William Reading, Jr.	Philadelphia	do.
Weiser, William	Orange	New Jersey
Westcott, Melville Horton	Englewood	do.
Widdoes, Virgil Andrew	Dexter	Maine
Williams, Percy	Nanticoke	Pennsylvania
Wolf, Joseph	Newark	New Jersey
Wolf, Louis	New York	New York
Yoshizaki, Seishin	Takagasu	Osaka, Japan

Total..... 174

In University Council, February 22, 1916.

*Doctor of Dental Surgery*

Bourquin, Justin Waite.....	as of the Class of 1915
Grevatt, Walter Egbert.....	" " " " " 1915
Vine, Benjamin.....	" " " " " 1915
Weiss, Milton Harold.....	" " " " " 1915

\* With Honors.

**DENTAL CALENDAR FOR 1917-1918.****1917.**

- Apr. 5, Thursday.....Easter Recess begins: 6 P. M.  
Apr. 10, Tuesday.....Easter Recess ends: 8 A. M.  
May 28, Monday.....Final Examinations (Third Year Class):  
9 A. M.  
June 4, Monday.....Final Examinations (First and Second  
Year Classes): 9 A. M.  
June 7, Thursday.....Entrance Examinations begin: 2.30 P. M.  
June 20, Wednesday.....Commencement: 11 A. M.  
Sept. 6, Thursday.....Entrance Examinations begin: 2.30 P. M.  
Sept. 17, Monday.....Competitive Examination for Dental  
Scholarships: 9 A. M.  
Sept. 25, Tuesday.....Re-examination of Conditioned Stu-  
dents, and Examinations for Admis-  
sion to Advanced Standing: 10 A. M.  
Sept. 28, Friday.....Session begins.  
Nov. 28, Wednesday.....Thanksgiving Recess begins 6 P. M.  
Dec. 3, Monday.....Thanksgiving Recess ends: 8 A. M.  
Dec. 22, Saturday.....Christmas Recess begins: 6 P. M.

**1918.**

- Jan. 3, Friday.....Christmas Recess ends: 8 A. M.  
Jan. 28, Monday.....Mid-year Examinations begin: 9 A. M.  
Feb. 22, Friday.....University Day. Recess.  
Mar. 28, Thursday.....Easter Recess begins: 6 P. M.  
Apr. 2, Tuesday.....Easter Recess ends: 8 A. M.  
May 22, Monday.....Final Examinations (Third Year Class):  
9 A. M.  
June 3, Monday.....Final Examinations (First and Second  
Year Classes): 9 A. M.  
June 19, Wednesday.....Commencement: 11 A. M.







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1918/19  
THE UNIVERSITY BULLETINS

EIGHTEENTH SERIES; NO. 4: PART 4

THE THOMAS W. EVANS MUSEUM AND DENTAL INSTITUTE  
SCHOOL OF DENTISTRY UNIVERSITY OF PENNSYLVANIA

(1917-1918)

Announcement for the 40th Annual Session

1918-1919



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UNIVERSITY OF PENNSYLVANIA

PHILADELPHIA

PUBLISHED BY THE UNIVERSITY

BI-MONTHLY

APRIL, 1918

Entered at the Philadelphia, Pa., Post Office as Second Class Matter.

## **SPECIAL NOTICE.**

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Copies of the University Catalogue (containing detailed information concerning all the Schools) may be obtained ONLY upon application to the Secretary of the University of Pennsylvania, Philadelphia, Pa.

To any alumnus of the University, the Catalogue will be sent upon application on receipt of name, class and address.

The special announcement of the following divisions of the University will be sent upon application to the appropriate Dean:

- THE COLLEGE, including
  - THE SCHOOL OF ARTS.
  - THE SUMMER SCHOOL.
  - THE COLLEGE COURSES FOR TEACHERS.
- THE TOWNE SCIENTIFIC SCHOOL.
- THE WHARTON SCHOOL.
- THE SCHOOL OF EDUCATION.
- THE GRADUATE SCHOOL.
- THE LAW SCHOOL.
- THE SCHOOL OF MEDICINE.
- THE SCHOOL OF DENTISTRY.
- THE SCHOOL OF VETERINARY MEDICINE.



1918.

## JULY.

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## AUGUST.

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## SEPTEMBER.

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## NOVEMBER.

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## JULY.

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## AUGUST.

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## SEPTEMBER.

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## NOVEMBER.

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## DECEMBER.

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# THE UNIVERSITY.

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## General Information.

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### LOCATION.

The buildings of the University of Pennsylvania, thirty-one in number, are situated in Philadelphia, on property covering an area of over fifty-nine acres. In addition to this land the University has recently acquired from the city an adjoining tract comprising fifty-five acres, more or less. The University may be reached from the various railroad stations as follows: From the West Philadelphia station of the Pennsylvania Railroad, on foot west on Woodland Avenue, a walk of less than ten minutes; from the Philadelphia and Reading Terminal station, by the electric subway, west to Thirty-second Street, thence on foot west on Woodland Avenue; or from the Baltimore and Ohio Railroad station by a walk of one square south to Walnut Street, thence by car over the bridge west to Thirty-fourth Street. To reach the Thomas W. Evans Museum and Dental Institute take the subway car No. 34 direct to the Institute, corner Fortieth and Spruce Streets.

### APPLICATIONS FOR CATALOGUES, ETC.

Applications for copies of the general University Catalogue should be addressed to the Secretary of the University of Pennsylvania, Philadelphia, Pa.

The University also issues pamphlets relating to the College and the several Schools or to Individual Departments and often containing information not found in the general Catalogue. Inquirers interested in special branches of work only are advised to apply for these pamphlets, not for the Catalogue.

All letters of inquiry regarding the internal regulations and requirements in the College or each separate School of the University should be addressed to the Dean of that section (see *Administrative Officers*, following), and *not* to the Secretary of the University.

### ACCOMMODATIONS FOR STUDENTS.

Lodging for students to the number of nearly one thousand is provided in the present dormitory system, which comprises an extended group of contiguous houses fronting upon three open courts. Plans of the dormitories, list of vacant rooms, prices, and other details may be obtained upon application to the Bursar of the University, Room 102, College Hall.

Board and lodging may be obtained also in the immediate vicinity of the University. Upon application at the offices of the several Deans (see *Administrative Officers*, following), lists of approved boarding houses may be seen.



# UNIVERSITY OF PENNSYLVANIA.

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## CHRONOLOGICAL TABLE.

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- 1740—"Charity School" founded.  
1749—The "Academy" established, with which the Charity School was combined.  
1753—Charter granted by Thomas and Richard Penn, incorporating "The Academy and Charitable School."  
1755—"Confirmatory Charter" granted by Thomas and Richard Penn, incorporating "The College, Academy and Charitable School."  
1765—School of Medicine founded.

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From September, 1777, to June, 1778, owing to the occupation of Philadelphia by British troops, recitations and lectures were suspended.

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- 1779—Withdrawal of the chartered rights and privileges of The College by the State Assembly, and incorporation of the "University of the State of Pennsylvania."  
1789—Restoration of its chartered rights and privileges to The College.  
1790—Law School founded (re-established in 1850).  
1791—Union of the University of the State of Pennsylvania with The College, under the title of the UNIVERSITY OF PENNSYLVANIA.  
1874—University Hospital established.  
1875—Towne Scientific School founded.  
1877—Department of Music established.  
1878—School of Dentistry founded.  
1881—Wharton School of Finance and Commerce founded.  
1882—Graduate School founded.  
1884—Veterinary School founded.  
1885—Veterinary Hospital established.  
1885—Department of Physical Education established.  
1889—Department of Archaeology established.  
1892—Laboratory of Hygiene established.

- 1892—Wistar Institute of Anatomy and Biology established.  
1892—Saturday Courses for Teachers established.  
1896—Houston Club organized.  
1896—Flower Astronomical Observatory opened.  
1904—Summer School (College) established.  
1906—College Courses for Teachers established.  
1910—Henry Phipps Institute transferred to the University.  
1912—Division of the College into three departments—The College,  
the Towne Scientific School, and the Wharton School.  
1914—School of Education established.  
1916—Medico-Chirurgical College and Hospital merged with Uni-  
versity.



## GENERAL SUMMARIES.

### OFFICERS OF INSTRUCTION.

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"    "    Veterinary Medicine.....	22
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	1,019
Duplications.....	352
	667
Total.....	

### STUDENTS.

The College.....	2,213
Towne Scientific School.....	564
Wharton School.....	2,090
School of Education.....	405
Graduate School.....	588
Law School.....	64
School of Medicine.....	500
"    "    Dentistry.....	687
Dental Graduate School.....	11
School of Veterinary Medicine.....	68
	7,190
Duplications (estimated).....	260
	6,930
Total.....	

### GEOGRAPHICAL DISTRIBUTION.

The Student List (gross figures) includes 3097 from Philadelphia; 1870 from Pennsylvania, outside of Philadelphia; 446 from New York; 550 from New Jersey; 73 from Ohio; 43 from Connecticut; 51 from Massachusetts; 82 from Maryland; 68 from Delaware; 39 from District of Columbia; 42 from Indiana; 17 from California; 31 from Illinois; 39 from Iowa; 25 from Maine; 16 from Michigan; 16 from Minnesota; 11 from Georgia; 39 from North Carolina; 10 from South Carolina; 23 from Tennessee; 25 from Texas; 29 from Virginia; 19 from Washington; 29 from West Virginia; 22 from Wisconsin; 11 from Kentucky; 16 from Montana; 18 from Utah; 9 from New Hampshire; in addition to other state returns. There are 24 from European and adjacent countries, 34 from South America including Argentina, Brazil, Columbia, Ecuador and Peru; 5 from Australia; 9 from Canada; 15 from Central America; 24 from China; 5 from Japan; 10 from Mexico; 18 from Porto Rico; 4 from the Philippine Islands and 3 from Egypt.

**PROVOST:**

EDGAR FAHS SMITH,  
President *pro tempore* of the Trustees.

**VICE-PROVOST:**

JOSIAH HARMAR PENNIMAN, PH.D., LL.D.

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**THE TRUSTEES OF THE UNIVERSITY OF  
PENNSYLVANIA.**

THE GOVERNOR OF PENNSYLVANIA:

President *ex-officio*.

**ELECTED.**

- 1876. CHARLES CUSTIS HARRISON, LL.D.
- 1880. WHARTON BARKER.
- 1896. MORRIS JAMES LEWIS, PH.D., M.D.
- 1896. JOSEPH GEORGE ROSENGARTEN, LL.D.
- 1896. RANDAL MORGAN.
- 1898. SAMUEL FREDERIC HOUSTON.
- 1901. JOSEPH LEVERING JONES, LL.D.
- 1903. ROBERT GRIER LE CONTE, M.D.\*
- 1903. JOSHUA BERTRAM LIPPINCOTT.
- 1905. ARTHUR LATHAM CHURCH.
- 1906. GEORGE HARRISON FRAZIER.
- 1910. JOHN CADWALADER, LL.D.
- 1910. CHARLES LOUIS BORIE, JR.
- 1910. LOUIS CHILDS MADEIRA.
- 1911. EDWARD TOWNSEND STOTESBURY.
- 1911. EFFINGHAM BUCKLEY MORRIS.
- 1911. GEORGE WHARTON PEPPER, D.C.L., LL.D.
- 1911. MORRIS LEWIS CLOTHIER, LL.D.
- 1911. Hon. JOHN CROMWELL BELL, LL.D.
- 1911. RICHARD ALEX. FULLERTON PENROSE, JR., PH.D.
- 1916. WILLIAM AUGUSTUS REDDING.
- 1917. HAMPTON LAWRENCE CARSON, LL.D.
- 1917. DAVID MILNE.

SECRETARY OF THE CORPORATION,

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## TRUSTEES OF THE THOMAS W. EVANS MUSEUM AND INSTITUTE SOCIETY.

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*Assistant Treasurer*, WM. H. HUTT, JR.

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1904. JOHN WEAVER.

1906. GEORGE W. NORRIS.

1906. FRANCIS B. REEVES.

1910. JOHN CADWALADER.

1910. FRANCIS S. McILHENNY.

1910. FRANK P. PRITCHARD.

1913. C. EMORY McMICHAEL.

1913. EDGAR F. SMITH.

1915. JOHN GRIBBEL.

1916. DIMNER BEEBER.

1917. EDWARD B. ROBINETTE.

1917. J. RUTHERFORD McALLISTER.

1917. EDWARD C. KIRK.

## ADMINISTRATIVE OFFICERS.

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*Provost*—EDGAR FAHS SMITH.

Office in the John Harrison Laboratory of Chemistry, Thirty-fourth and Spruce Streets.

*Vice-Provost*—JOSIAH H. PENNIMAN, PH.D., LL.D.

Office, 104 College Hall.

*Secretary*—EDWARD ROBINS, A.M.

Office, 4 Law School Building.

*Treasurer*—WILLIAM H. HUTT.

Office, 400 Chestnut Street.

*Recorder*—GEORGE E. NITZSCHE, LL.B.

Office, Houston Hall.

*Bursar*—WILLIAM O. MILLER, A.B.

Office, 102 College Hall. Office hours, 9 A. M. to 5 P. M., daily.  
The Bursar's office is open from 9 A. M. to 5 P. M. Saturdays,  
9 A. M. to 1 P. M.

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### DEANS OF THE FACULTIES.

*Dean of the College Faculty*—ARTHUR HOBSON QUINN, PH.D.

Office, 103 College Hall, Woodland Avenue. Office hours, 9 A. M. to 12 M., daily.

*Dean of the Towne Scientific School Faculty*—JOHN FRAZER, A.M., PH.D.

Office, Engineering Building. Office hours, 9 A. M. to 12 M., and 3 P. M. to 4 P. M., daily.

*Dean of the Wharton School Faculty*—WILLIAM MCCLELLAN, E.E., PH.D.

Office, Logan Hall, Thirty-sixth Street below Woodland Avenue.

*Dean of the School of Education*—FRANK P. GRAVES, PH.D., LITT.D., LL.D.

Office, 108 College Hall. Office hours, 11 A. M. to 12 M., daily, and 4 P. M. to 5 P. M., except Friday and Saturday.



*Dean of the Graduate School Faculty*—HERMAN V. AMES, A.M., PH.D.  
Office, 105 College Hall, Woodland Avenue. Office hours, 9 A. M. to 12 M., daily.

*Dean of the Law Faculty*—WILLIAM E. MIKELL, B.S., LL.M.  
Office in the Law School Building, Thirty-fourth and Chestnut Streets. Office hours, Wednesdays, Thursdays and Fridays, 12 to 1 P. M.; Mondays and Tuesdays, 12.15 to 1 P. M.

*Dean of the Medical Faculty*—WILLIAM PEPPER, A.B., M.D.\*

*Acting Dean*—ALLEN J. SMITH, M.D., Sc.D., LL.D.

The Dean's Office (in the Medical Laboratories, Hamilton Walk) is open from 9 A. M. to 5 P. M.; Saturdays, 9 A. M. to 1 P. M.

*Dean of the Dental Faculty*—CHARLES R. TURNER, DD.S., M.D.

Office, Thomas W. Evans Dental Institute, Fortieth and Spruce Streets. Office hours, 9 A. M. to 12 noon, daily.

*Dean of the Faculty of Veterinary Medicine*—LOUIS A. KLEIN, V.M.D.\*

*Acting Dean*—WILLIAM J. LENTZ, V.M.D.

Office Veterinary Building, Thirty-ninth Street and Woodland Avenue. Office open daily from 9 A. M. to 5 P. M., except Saturday; on Saturday, 9 A. M. to 1 P. M.

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#### DEPARTMENT OF PHYSICAL EDUCATION.

*Director*—R. TAIT MCKENZIE, A.B., M.D.

Office in the Gymnasium, Thirty-third and Spruce Streets. Office hours, 3 P. M. to 6 P. M., daily, except Saturdays.

*Students' Physicians*—The Trustees have appointed DR. J. C. BIRDSALL and DR. F. G. HARRISON, to act as students' physicians, under the guidance of DR. THOMAS C. KELLY, Acting Chief Physician of the Medical Dispensary of the University Hospital. A Students' Dispensary is conducted daily at the University Hospital.

*Ophthalmologist*—WILLIAM C. POSEY, A.B., M.D., 2049 Chestnut Street.  
Office hours, from 8.30 A. M. to 1 P. M., daily. Telephone connection.

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#### OTHER DEPARTMENTS.

*Director of Admissions*—GEORGE GAILEY CHAMBERS, PH.D.

(For the College, Towne Scientific School, Wharton School and School of Education.)

Office, Room 113, College Hall.

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\* Absent on leave.

*Assistant Director*—GEORGE WILLIAM MCCLELLAND, A.M., PH.D

*Librarian of the University*—MORRIS JASTROW, JR., PH.D., LL.D.

Office in the Library, Thirty-fourth Street below Walnut.

*Assistant Librarian*—KATHARINE S. LEIPER.

The Library is open daily during term-time (except holidays), from 8.15 A. M. to 10 P. M.; Sundays, from 2 P. M. to 6 P. M.

During the summer vacation daily (except Sundays and holidays), from 9 A. M. to 5 P. M.; during the session of the Summer School daily (except holidays) from 8.30 A. M. to 10 P. M.;

Sundays, from 2 P. M. to 6 P. M.

*Librarian of the Biddle Law Library*—MRS. MARGARET C. KLINGELSMITH, LL.B., LL.M.

Office in the Law School Building, Thirty-fourth and Chestnut Streets. Office hours, 10 A. M. to 5 P. M., daily.

*Director of the Summer School*—HENRY LAMAR CROSBY, PH.D.

Office, 109 College Hall. (The Summer School session will not be held in 1918.)

*Superintendent of the University Hospital*—MARION E. SMITH.

The Hospital is on Spruce Street above Thirty-fourth. Communications concerning the Hospital and the admission of patients should be addressed to the Superintendent.

*Director of the William Pepper Clinical Laboratory*—HERBERT FOX, M.D.\*

Office in the Laboratory. Office hours, 2 P. M. to 3 P. M., daily.

The Laboratory is on Spruce Street below Thirty-sixth, adjoining the Hospital.

*Acting Director of the Laboratory*—SAMUEL S. KNEASS, M.D.

*Director of the Wistar Institute*—MILTON J. GREENMAN, PH.B., M.D., Sc.D.

Office in the Institute, Thirty-sixth Street and Woodland Avenue. Office hours, from 3 to 5 P. M., daily, except Saturdays.

*Director of the John Harrison Laboratory of Chemistry*—EDGAR F. SMITH, PH.D., CHEM.D., Sc.D., L.H.D., LL.D.

Office in the Laboratory, Thirty-fourth and Spruce Streets.

*Director of the Laboratory of Hygiene*—ALEXANDER C. ABBOTT, M.D., DR.P.H., Sc.D.\*

Office in the Laboratory, Thirty-fourth Street below Walnut.

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\* Absent on leave.

*First Assistant in the Laboratory*—DAVID HENDRICKS BERGEY, A.M., M.D., DR.P.H.\*

Office in the Laboratory. Office hours, 9 A. M. to 12 M., and 2 P. M. to 5 P. M., daily.

*Acting Director of the Laboratory*—HENRY FIELD SMYTH, M.D., DR.P.H.

*Director of the Randal Morgan Laboratory of Physics*—ARTHUR W. GOODSPEED, PH.D.

Office in the Laboratory, Thirty-fourth Street below Walnut.

*Director of the Psychological Laboratory and Clinic*—LIGHTNER WITMER, PH.D.\*

Office in the Laboratory, College Hall.

*Director of the Light and Heat Station*—SAMUEL B. LOCKE.

*Superintendent of Buildings and Grounds*—WILLIAM R. JONES, M.E.

Office, Room 323, Engineering Building.

*Director of the Zoölogical Laboratory*—CLARENCE E. MCCLUNG, PH.G. A.M., PH.D.

The Laboratory is on Hamilton Walk.

*Director of the Robert Hare Chemical Laboratory*—JOHN MARSHALL, M.D., NAT. SC.D., LL.D.

*Director of the Botanic Garden*—JOHN M. MACFARLANE, D.SC.

The Garden is adjacent to the Botanical Laboratory, on Hamilton Walk, and is open daily from 7 A. M. to sunset. The greenhouses are open from 8 A. M. to 5 P. M.

*Director of the Flower Astronomical Observatory*—ERIC DOOLITTLE, C.E.

The Observatory is situated at Highland Park Station, one mile beyond the Sixty-ninth Street Terminal Station of the Market Street elevated electric road.

*Purchasing Agent*—BOULTON EARNSHAW.

Office, 320 Zoölogical Laboratory. Office hours, 9 A. M. to 4.30 P. M.

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#### HENRY PHIPPS INSTITUTE.

*Executive Director*—CHARLES J. HATFIELD, M.D.

*Director of the Clinical and Sociological Departments*—H. R. M. LANDIS, M.D.

*Director of the Laboratory*—PAUL A. LEWIS, M.D.

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\* Absent on leave.

## UNIVERSITY MUSEUM.

The Museum contains the archæological and ethnological collections of the University, and is situated on Spruce Street below Thirty-fourth, opposite Franklin Field. The collections are open to visitors daily from 10 A. M. to 5 P. M.; on Sundays, from 2 P. M. to 6 P. M. *Director*, GEORGE B. GORDON, Sc.D.

## UNIVERSITY OF PENNSYLVANIA CABLE ADDRESS:

*"Sylpenn," Philadelphia.*



## THE THOMAS W. EVANS DENTAL INSTITUTE.

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By a formal agreement executed June 15, 1912, by the Trustees of the University of Pennsylvania and The Thomas W. Evans Museum and Institute Society, a co-operative affiliation was established between the respective corporations whereby the resources of both are utilized in carrying out the intent and purposes expressed in the will of the late Dr. Thomas W. Evans, in which he directed that the residue of his estate be applied to the creation of a dental educational institution to be located at the Northwest corner of Spruce and Fortieth Streets, in the City of Philadelphia, and to be carried on "as such institutions of learning are now conducted in Philadelphia and not inferior to any already established." The new Dental Institute, which is the materialization of Dr. Evans' bequest and which houses the School of Dentistry of the University of Pennsylvania, occupies the lot at the Northwest corner of Fortieth and Spruce Streets.

The building is 242 feet long by 161 feet wide. The style of architecture is collegiate Gothic, of the time of Henry VIII, and in keeping with the architecture of the law school, dormitories, zoological, medical, engineering and other recently constructed buildings of the University. The material is of Indiana limestone and hard burnt red brick. The building is in the shape of the letter H, and consists of three stories over a high basement.

Of the several interesting features of the building, two are the Museum proper and the square tower, which is built at the main entrance at the center of the Spruce Street wing. The tower is 38 feet square, rising 84 feet. In the center of the tower, beginning at the second story and reaching almost to the top of the third floor, is a large window, which lights the library, on the second floor.

The Evans Museum, which occupies the east hall of the Spruce Street wing, is as nearly fire and burglar-proof as modern science can make it.

Another of the important features of the building is the large operative clinic, in the north wing on the second floor. This occupies the entire wing and contains 135 especially designed operating chairs, with instrument cabinets and gas, electricity, water and compressed-air service, at each chair. On the north side is a wall of glass, so far as is possible in keeping with the strength of the building. The clinic

is two stories high, 30 feet in all, and the glass in the wall is turned over the roof a distance of about 10 feet, giving all the daylight possible.

In the scheme of educational work of the Institute provision has been made for undergraduate training for the dental degree as required for legal qualification for the practice of dentistry, post-graduate instruction on the elective system and opportunities and facilities for scientific research in dental subjects.

The laboratories of bacteriology, of histology and of pharmacology are commodious and well lighted and are equipped each with appropriate installations of microscopes and accessory apparatus of the highest grade obtainable for practical laboratory teaching.

The Institute is equipped with complete outfits of photographic apparatus for the recording of cases of practical educational value, also a radiographic department, rooms for the prosecution of individual scientific research work, and every modern convenience for facilitating the work of instruction as well as the conduct of the extensive clinical service of the Institute in its several phases of Oral Surgery, Operative and Prosthetic dentistry and their various subdivisions.

The Institute offers special facilities for the prosecution of individual scientific research work in subjects related to dental science and art. Fully equipped private laboratories are provided where those fitted for pursuing research work may prosecute special studies of that character under the most favorable circumstances and with the general facilities of the Institute and the technical advice of its staff of instructors at their service.

The department of graduate instruction occupies an extensive section of the building and is especially equipped with the most modern chairs and appliances for the conduct of its educational work. Compressed air, electrical service, gas, hot and cold water are supplied to all of the laboratories and to the individual work tables, etc. Neither time, care nor expense has been spared in making the Institute in its construction and equipment and in its educational plan and staff the most extensive and efficient dental educational institution in existence.

In consequence of the affiliated interests of the two institutions, the students of the Evans Institute are accorded all of the advantages of University relationship, including the resources of the University for furnishing instruction in the fundamental medical and dental subjects, its social, educational and athletic advantages.

The students of the Dental School of the University likewise enjoy the advantages of the new building erected by the Evans Institute Society, and its material resources for the conduct, maintenance and improvement of the same.

## SCHOOL OF DENTISTRY.

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### FACULTY.

EDGAR F. SMITH, PROVOST.

JOSIAH H. PENNIMAN, PH.D., LL.D., VICE-PROVOST.

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EDWIN T. DARBY, D.D.S., M.D., LL.D., Emeritus Professor of Operative Dentistry.

EDWARD C. KIRK, D.D.S., Sc.D., LL.D., Emeritus Professor of Dental Pathology and Therapeutics.

MATTHEW H. CRYER, D.D.S., M.D., Emeritus Professor of Oral Surgery.

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EDWARD T. REICHERT, M.D., Sc.D., Professor of Physiology.

GEORGE A. PIERSOL, M.D., Sc.D., Professor of Anatomy.

JOHN MARSHALL, M.D., NAT.SC.D., LL.D., Professor of Chemistry and Toxicology.

CHARLES R. TURNER, D.D.S., M.D., Professor of Mechanical Dentistry and Metallurgy, and DEAN OF THE FACULTY.

HERMAN PRINZ, A.M., D.D.S., M.D., Professor of Materia Medica and Therapeutics.

NATHANIEL GILDERSLEEVE, M.D., Professor of Microbiology and Bacterio-Pathology.

ARTHUR HOPEWELL-SMITH, L.D.S., ENG., M.R.C.S., ENG., L.R.C.P., LOND., Professor of Dental Histology, Histopathology and Comparative Odontology.

CHARLES C. VOELKER, D.D.S., Professor of Clinical Dentistry.

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R. HAMILL D. SWING, D.D.S., Assistant Professor of Oral Surgery and Anesthesia.

A. DEWITT GRITMAN, D.D.S., Assistant Professor of Mechanical Dentistry.

EDWARD LODHOLZ, M.D., Assistant Professor of Physiology.

GEORGE FETTEROLF, A.B., M.D., Sc.D., Assistant Professor of Anatomy.

LEON ALONZO RYAN, PH.D., Assistant Professor of Chemistry and Toxicology.

WILLIAM H. F. ADDISON, M.B., Assistant Professor of Normal Histology.

FREDERICK W. ALLEN, D.D.S., Assistant Professor of Operative Technic.

ROBERT J. SEYMOUR, D.D.S., Assistant Professor of Mechanical Technic.

WILLIAM A. CAPON, D.D.S., Assistant Professor of Dental Ceramics.

WILLIAM DIEHL, D.D.S., Assistant Professor of Operative Dentistry.

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JOHN V. MERSHON, D.D.S., Assistant Professor of Orthodontia.

WILSON ZERFING, D.D.S., Assistant Professor of Operative Dentistry.

JOSEPH L. APPLETON, JR., B.S., D.D.S., Assistant Professor of Microbiology and Bacterio-Pathology.

\*GEORGE M. DORRANCE, M.D., Assistant Professor of Oral Surgery.

ARCHIBALD C. EGLIN, D.D.S., Assistant Professor of Crown-and-Bridge Work.

#### LECTURERS.

ROBERT HUEY, D.D.S., Lecturer on Operative Dentistry.

MEYER L. RHEIN, D.D.S., M.D., Lecturer on Dental Pathology.

WILLIAM WALLACE WALKER, M.D.S., D.D.S., Lecturer on Clinical Dentistry.

#### INSTRUCTORS.

GEORGE H. CHAMBERS, M.D., Instructor in Normal Histology.

MILTON N. KEIM, JR., D.D.S., Instructor in Mechanical Dentistry.

J. REX HOBENSACK, M.D., Instructor in Anatomy.

JAMES A. DOWDEN, D.D.S., Instructor in Mechanical Dentistry.

G. JANVIER PAYNTER, D.D.S., Instructor in Tooth Modeling.

JOHN J. ROBRECHT, M.D., Instructor in Anatomy.

J. GARRETT HICKEY, D.D.S., M.D., Instructor in Physiology.

WILLIAM E. QUICKSALL, M.D., Instructor in Anatomy.

\*WALTER S. CORNELL, M.D., Instructor in Osteology.

CHARLES H. JACO, D.D.S., Instructor in Operative Dentistry.

PENN-GASKELL SKILLERN, JR., M.D., Instructor in Anatomy.

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\* Absent on leave.



- \*SIDNEY A. SANDS, D.D.S., Instructor in Operative Dentistry.  
WILLIAM T. CONARD, D.D.S., Instructor in Mechanical Dentistry.  
WILLIAM A. ALLWOOD, D.D.S., Instructor in Mechanical Technic.  
\*FRANK P. K. BARKER, D.D.S., Instructor in Crown-and-Bridge Work.  
GEORGE S. DILMORE, JR., D.D.S., Instructor in Mechanical Dentistry.  
CLARENCE D'A. DANIELS, M.D., Instructor in Normal Histology.  
SAMUEL R. SAWYER, D.D.S., Instructor in Operative Dentistry.  
HERMAN VAN HASSELT, D.D.S., Instructor in Operative Dentistry.  
JOHN H. GUNTER, D.D.S., Instructor in Anatomy.  
FRANK A. FOX, D.D.S., Instructor in Mechanical Dentistry.  
JAMES R. MALLON, D.D.S., Instructor in Orthodontia.  
HUGH McWILLIAMS, D.D.S., Instructor in Mechanical Dentistry.  
\*JACOB LEON HERMAN, M.D., Instructor in Anatomy.  
\*CHARLES W. SWING, D.D.S., Instructor in Operative Technic.  
\*E. HOWELL SMITH, D.D.S., Instructor in Mechanical Technic.  
NORMAN S. ROTHSCHILD, M.D., Instructor in Anatomy.  
\*JOHN S. OWENS, D.D.S., Instructor in Crown-and-Bridge Work.  
\*D. HAYES AGNEW IRWIN, D.D.S., Instructor in Extraction and Anesthesia.  
JOHN BURKHARDT, JR., D.D.S., Instructor in Porcelain Work.  
J. CARL CRISWELL, D.D.S., Instructor in Mechanical Dentistry.  
WILLIAM H. HOUGH, JR., D.D.S., Instructor in Operative Technic.  
HERANT B. MATTEOSSIAN, A.B., D.D.S., Instructor in Operative Dentistry.  
THOMAS B. WADE, D.D.S., Instructor in Radiography.  
HENRY L. WEBER, D.D.S., D.F.M.P., Instructor in Operative Dentistry.  
JOHN M. LONG, D.D.S., Instructor in Operative Dentistry.  
\*JOHN C. MACKIN, D.D.S., Instructor in Extraction and Examiner.  
\*ROBERT S. DAVIS, D.D.S., Instructor in Orthodontia.  
WILLIAM L. MAGEE, D.D.S., Instructor in Orthodontia.  
JAMES C. ENTRIKEN, D.D.S., Instructor in Crown-and-Bridge Work.  
JOSE L. LOPEZ, D.D.S., Instructor in Vulcanizing.  
WILLIAM HARTZ, M.D., Instructor in Normal Histology.  
J. WARREN CROZIER, D.D.S., Instructor in Operative Dentistry.  
WALTER B. LAVELLE, D.D.S., Instructor in Prosthetic Dentistry.

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\* Absent on leave.

HOWARD H. WOODROW, D.D.S., Instructor in Prosthetic Dentistry.  
 FORREST M. HARRISON, D.D.S., Instructor in Porcelain Inlays.  
 ALEXANDER J. HUNTER, D.D.S., Instructor in Crown-and-Bridge Work.

FRANCIS M. JAQUISH, D.D.S., Instructor in Operative Dentistry.  
 WILLIAM R. WEBB, JR., D.D.S., Instructor in Porcelain Inlays.  
 CARRIE K. BRYANT, B.S., Instructor in Bacteriology.  
 HARRY D. SAYLOR, D.D.S., Instructor in Operative Dentistry.  
 ALFONS MOUFANG, D.D.S., Instructor in Crown-and-Bridge Work.  
 \*VINCENT E. D. BRAGG, D.D.S., Instructor in Operative Dentistry.  
 HENRY E. STARR, B.S., Instructor in Chemistry and Toxicology.  
 JAMES E. AIGUIER, Ph.G., D.D.S., Instructor in Applied Physics.  
 ARTHUR E. CORBY, D.D.S., Instructor in Extraction and Examiner.

HOWARD K. MATHEWS, D.D.S., Instructor in Crown-and-Bridge Work.

W. W. ATKINSON, Instructor in Metallurgy.

EDWIN C. TOWN, M.D., Instructor in Dental Histology.

WILLIAM M. CAMERON, D.D.S., Instructor in Dental Histology.

J. W. ROSS, D.D.S., Instructor in Orthodontia.

S. BYRON GOLDSMITH, M.D., Assistant Instructor in Anatomy.

\*CHARLES S. SCHAFER, M.D., Assistant Instructor in Anatomy.

EUGENE K. KRAUSE, D.D.S., Instructor in Operative Dentistry.

PAUL J. MCCARTHY, D.D.S., Examiner and Instructor in Operative Dentistry.

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JOHN A. REIMOLD, Secretary of the School of Dentistry.

HENRY RAINEY, Recorder.

WILLIAM H. TRUEMAN, D.D.S., Honorary Librarian.

LOUISE REAZIN, Acting Librarian.

#### CLINICAL INSTRUCTORS.

DR. EDWARD I. KEEFFER,

DR. JOHN R. YORKS,

DR. DANIEL N. MCQUILLEN.

#### DENTAL GRADUATE SCHOOL.

ARCHIBALD C. EGLIN, D.D.S., Assistant Professor of Crown-and-Bridge Work, and Director of the School.

W. CLYDE DECKER, D.D.S., Instructor in Crown-and-Bridge Work.

ARTHUR W. CROSS, Instructor in Crown-and-Bridge Work.

WILLIAM R. WEBB, JR., D.D.S., Instructor in Porcelain Work.

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\* Absent on leave.

## ORGANIZATION OF THE DENTAL SCHOOL.

The School of Dentistry of the University of Pennsylvania was organized in the early part of 1878. It was the third school created as the dental department of a university, having been preceded in this respect by the Harvard School of Dentistry (organized in 1867), and the Dental Department of the University of Michigan (organized in 1875).

The motive leading to the creation of dental schools as regular departments of the university educational system was the rapid growth of dentistry as a profession. This necessitated improvement in the educational equipment of its practitioners, and tended to broaden the courses of instruction furnished by dental schools to meet the continual demand for more thorough training.

Realizing that while dentistry is a separate profession, yet constituting as it does an important branch of the science and art of healing, and that its close relationship with medicine necessarily called for the future development of dentistry in conformity therewith, the Trustees took action resulting in the creation of the School of Dentistry of the University of Pennsylvania. The plan of instruction was so arranged that the branches common to both medicine and dentistry were taught concurrently by teachers who held corresponding chairs in both medical and dental faculties; while the strictly dental teaching was provided for by the creation of chairs whose incumbents were specially qualified for giving instruction in their respective branches. This arrangement is in strict accordance with the university idea, by which the teaching of allied branches in different departments is centralized. It does not imply that the School of Dentistry is a branch of the School of Medicine, for, as a matter of fact, both are distinct Schools of the University.

It is worthy of note that the School of Dentistry is actually, as well as in name, a School of the University. Its position as a recognized member of the University family confers upon its students all of the advantages pertaining to that relationship. Its students enjoy in common with all other students of the University the privileges and social relationships pertaining to the student life of the whole body. Prominent among these features is membership in the Houston Club, an organization governed by students and domiciled in a club house the fittings and appointments of which are those of a strictly first-class club. Its students have also the use of the Dormitories, and are admitted to all of the athletic features of the University; while, with reasonable restrictions, the opportunity is afforded them to pursue such allied lines of study as in the judgment of the authorities may tend to add strength and fullness to the dental educational equipment.

The practical advantages that accrue to the dental student by such a broad policy are at once manifest. Its effect upon the status of the dental practitioner must be recognized when it is considered that during the student life his association with the students of the other divisions of the University is upon a basis of equality in all that concerns the student life of the institution. The influence of this feature in bringing about a close relationship between dental and medical students develops a mutual respect and recognition, which in their career as practitioners is of the utmost importance.

The equipment and facilities of the laboratories of microbiology and of histology and histopathology are unsurpassed. In connection with the work, each student has the individual use of an outfit for microscopical work, the best and most complete obtainable.

The Institute is also furnished with the highest grade equipment for radiography and likewise for photography in all its applications as well as with elaborate projecting apparatus for the photographic illustration of the didactic courses of instruction.

### EQUIPMENT.

The arrangement of the interior of the Dental Institute and its equipment are such that facilities are provided for the thorough education of the student in every important detail of his professional work. The clinical operating-room occupies one entire floor of the building, giving a floor space 205 by 48 feet, furnished with one hundred and thirty-four latest pattern Diamond operating chairs, each provided with a fountain cuspidor, with running water attached, and attachment for the Fisk saliva ejector, a bracket arm, and table for holding instruments, besides a separate cabinet and table for the instrument case. Electric and compressed air service are provided at each chair. A complete locker system in connection with the operative clinic furnishes means for the storage of instruments when not in use. In the fitting up of the operating-room, the aim has been to make the appointments as nearly as possible like those of a first-class private office, so that from the beginning of his course the student is familiarized with the conditions he will meet in actual practice.

One large general laboratory for prosthetic work is provided, and separate laboratories for crown-and-bridge work, orthodontia techniques, prosthetic technics, operative technics, porcelain work including inlays, crown-and-bridge and continuous gum work, metallurgical work, cast metal fillings, vulcanizing and modeling; also special clinic rooms and laboratories. Ample arrangements are provided for the convenience and comfort of the students in the care of instruments,



tools, etc. There are also hat and coat rooms, lavatories, storerooms, etc. The laboratories are fitted with the most approved appliances for work and instruction in the several departments of dentistry. Compressed air is supplied to the laboratory tables for melting and soldering operations, as well as for metallurgical work. The laboratory lathes are driven by electric motor, and no feature which could add to the facilities for thorough and accurate work has been omitted.

The lecture amphitheater will comfortably seat 400. And in relation with it are arranged the dental museum and library.

As the laboratory, or manual-training method forms a prominent and necessary adjunct to didactic teaching, facilities for carrying out the technic system of instruction are provided in connection with each subject to which the system is applicable.

### ADMISSION.

The courses in Dentistry are open to women on the same terms as to men.

Special attention is called to the rule requiring all applicants for matriculation to be present and enter their names *not later than 5 o'clock P. M. on the Monday following the last Friday in September* with the understanding, however, that in case of matriculation delayed beyond the date of official opening by causes beyond the control of the matriculant the practical work scheduled for the period preceding the date of matriculation must be made up at the expense of the student.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation. No candidate will be allowed to matriculate for more than one session at a time.

### VACCINATION.

According to the Regulations of the Bureau of Health of the City of Philadelphia, the University of Pennsylvania is required to refuse admission to any person who cannot present a certificate signed by a physician stating that such person has been recently vaccinated or that he or she has previously had smallpox. All persons matriculating in the Evans Dental Institute will, therefore, have to present such a certificate at the time of matriculation and in default of such certificate must be vaccinated. Official forms furnished by the Bureau of Health of the City of Philadelphia can be obtained by applying in person or by messenger at Room 712, City Hall, between the hours of 9 A. M. and 4 P. M., and on Saturdays from 9 A. M. to 12 M., or at the office of the Dean.

## PRELIMINARY EDUCATIONAL REQUIREMENTS.

For the session 1918-1919 the preliminary educational requirement for matriculation is the completion of a standard four-year high school course, or the equivalent, which must include the satisfactory completion of a one year course in an approved high school in each of the following sciences: physics, chemistry, and biology, or in lieu thereof, the passing of each of these sciences at 75 per cent or above in examinations conducted by the Bureau of Professional Education of the State of Pennsylvania, or other state examinations of equivalent grade. In lieu of high school credit for a year's course in Biology, a half year of Elementary Botany or Elementary Zoölogy and a half year in Physiology and Hygiene will be accepted for the session of 1918-19, with the proviso that the candidate pass the examination in Elementary Biology conducted by the Bureau of Professional Education of the State of Pennsylvania in February, 1919. These requirements may be satisfied by a certificate from an approved high school or a preparatory school of equal academic grade, or by entrance examination.

## ADMISSION BY CERTIFICATE.

Certificates of preliminary education submitted to satisfy the entrance requirements or any part thereof, in order to receive credit for the work done, must set forth in detail the course of instruction through which the applicant has passed, the number, character and extent of studies, the length of time devoted to each and the grades attained therein, all duly authenticated by the proper authorities of the school that issues them. Such detailed certificates must be made out upon official blank forms of the Dental School, and these will be furnished to all applicants desiring them.

In order that certificates of preliminary education may be promptly adjudicated by the official examiner as to their credit value, they should be sent to the Dean of the Dental School as early as possible, and in any event not later than September 1st.

Certificates from foreign countries should be authenticated by representatives of the United States consular or diplomatic service.

A credit of 60 academic counts is awarded for a certificate of the completion of a standard four-year high school course which must include the following obligatory subjects: English (3 years), any foreign language (2 years), Mathematics (Algebra through quadratics and plane geometry), Chemistry, Physics, Biology, and American History and Civics.

The standard high school year is the *unit* in estimating values of subjects in counts.

A count is the unit of value assigned to work in a single subject pursued for one period per week throughout the standard school year of 36 weeks, each recitation period being not less than 45 minutes duration.

In the adjudication of High School and preparatory school certificates not more than 15 counts credit will be allowed for any one year of preparatory school work.

Applicants whose credentials do not fully meet the requirements outlined above may make up the required work in any branch or branches by examination in the subjects specified in the subjoined list which will indicate the maximum count values assigned to the ordinary high school subjects. Candidates who present satisfactory evidence of the partial completion of a high school course will be informed as to the subjects in which it will be necessary to pass examinations to complete the requirements for admission. It must be noted that deficiencies in high school education necessary for admission to this department must be made up at the rate of 18 academic counts for each high school year not covered by certificate and not at the rate of 15 academic counts which is the valuation of a high school year earned in curriculum. Those who desire to earn their credits wholly by examination must secure a total of 72 counts including the obligatory subjects in order to be admitted, as this is deemed by the Department as the equivalent of the 60 counts awarded for the completion of the standard four-year high school course.

	Counts		Counts
English Grammar.....	2	Second Year Spanish.....	10
Rhetoric and Composition...	3	English Classics C.....	4
History of English Literature	2	English Classics D.....	4
History of American Literature.....	3	Grecian History.....	3
American History.....	3	Roman History.....	3
Civil Government.....	2	General History.....	5
First Year Latin.....	5	Medieval and Modern History	4
Caesar.....	4	English History.....	3
Cicero.....	5	Advanced Arithmetic.....	2
Vergil.....	5	Algebra through Quadratics..	5
Latin Composition.....	2	Plane Geometry.....	5
First Year German.....	5	Solid Geometry.....	2
Second Year German.....	10	Trigonometry.....	2
First Year French.....	5	Physics.....	5
Second Year French.....	10	Chemistry.....	5
First Year Spanish.....	5	Botany.....	2½
		Zoölogy.....	2½

	Counts		Counts
Biology.....	5	Agriculture.....	2
Physical Geography.....	4	Commercial Geography.....	3
Physiology and Hygiene.....	2½	School Hygiene.....	2
Bookkeeping.....	4	Advanced Algebra.....	2

In lieu of certificates covering the above specified requirement, the applicant will be required to pass a matriculation examination, which shall be the equivalent of that forming the basis of the entrance standard of preliminary education.

### ENTRANCE EXAMINATIONS.

The entrance examinations are conducted by the Bureau of Professional Education, created by statute of the State of Pennsylvania. A card of identification must first be obtained by the candidate in person from the Secretary of the Dental School, and presented not less than one week previous to the date set for the examination in order to obtain an official permit from the Bureau to take the examination. A uniform fee of \$1.00 is charged by the Bureau of Professional Education for the permit regardless of the number of subjects taken at any one examination by the candidate.

The entrance examinations for the session of 1918-1919 will be held in Central High School Building, Broad and Green Streets, Philadelphia, on the following dates: Thursday, Friday and Saturday, February 7, 8, 9, 1918, at 2.30 P. M., June 6, 7, 8, 1918, at 2.30 P. M., and on Thursday, Friday and Saturday, September 5, 6, 7, 1918, at 2.30 P. M.

The Dental Student's Qualifying Certificate is required from students entering from New York State. The State Preliminary Certificate is required of all students entering from the State of Pennsylvania, who are advised to communicate with the Bureau of Professional Education, Room 422 Perry Building, Philadelphia, Pa., for information.

Certificates submitted by applicants who have obtained their preparatory education in schools of the State of New Jersey are required to first submit their credentials to the State Superintendent of Public Instruction, at Trenton, N. J., for approval.

### ADMISSION TO ADVANCED STANDING.\*

Students possessing the requisite preliminary education and who have attended one full term in a dental school recognized by this University,

\* All applicants for advanced standing must pass the examinations of the years they desire to omit, or furnish proof that they have passed equivalent examinations in some recognized dental or medical school.



will be admitted to the second year, subject to the rules governing admission to advanced standing.

Graduates of a recognized medical school will be admitted to the Second-year Class of the three years' course or to the Third-year Class of the four-years' course without examination. Undergraduates of medical schools are not admitted to advanced standing in the dental course.

Applicants for advanced standing, who have not had instruction in Practical Histology and Practical Chemistry equivalent to that required by this department, will be permitted to make up such deficiency by taking special courses, for which an extra fee of fifteen dollars is charged for each branch. Classes for special courses in these branches are organized during the second week in September for the benefit of those desiring to take the laboratory work before the work of the regular session.

Students who have credit for the completed work of two or more terms in a recognized dental school, and who possess the requisite preliminary educational qualifications, are eligible for admission to the third year, subject to the rules governing admission to advanced standing.

Graduates of foreign dental schools are required to conform to the rules governing preliminary educational qualifications as well as the rules governing advanced standing, and their credentials must have been satisfactorily authenticated before they can be accepted.

### SCHOLARSHIPS.

1. UNIVERSITY SCHOLARSHIPS.—The Trustees have established two University Scholarships in Dentistry, the award of which is based upon the result of a competitive examination. They are not awarded for less than the entire course.

Examinations for these scholarships are held on the same day with those fixed for entrance to the College (*Monday, September 16, 1918*, at 9 o'clock A. M.), and are open to all applicants otherwise eligible for admission to the School of Dentistry. Circulars setting forth in detail the plan of the scholarship examination may be had upon application to the Dean of the School of Dentistry.

2. PHILADELPHIA FREE SCHOLARSHIPS.—Under an agreement with the city of Philadelphia, fifty free scholarships exist in the University for the benefit of graduates of the public schools. The candidates for these scholarships are examined by the Board of Public Education, and award is made to those who reach the highest grade, as vacancies occur from year to year.

Under another agreement with the city of Philadelphia, seventy-five free scholarships exist in the University for the benefit of graduates from local schools in general. Information regarding the latter scholarships should be obtained from the Mayor's Office.

All applicants for admission upon a scholarship basis other than that provided under the heading "University Scholarships" above must be citizens of the State of Pennsylvania and are required to fully meet the educational requirements for unconditional matriculation.

#### STATUS OF STUDENTS.

A regular student is one who is admitted to the regular courses of the School, and who is a candidate for the degree of D.D.S.

A special student is one who is admitted to the School for partial courses, but who, not being a candidate for the degree, does not take the regular course. The admission of special students is at the discretion of the Dean.

The School reserves the right to sever its connection with any student who does not show the right attitude toward his work, damages School property, or is objectionable to the Faculty because of misconduct.

Students who lack the necessary talent to pursue a course in Dentistry, as evinced by failure in one or more subjects, may be asked to withdraw and may be refused admission at the beginning of the succeeding semester.

#### SPECIAL COURSES.

The School offers special courses of instruction in any or all of the branches of the curriculum to qualified dental graduates. Such courses are elective and do not lead to the dental degree. The fees for the special courses are \$75.00, \$150.00 or \$200.00, depending upon whether the student remains under instruction for three months, six months or the entire session respectively. These course fees are in all cases additional to the regular matriculation fee of \$5.00.

#### HOUSTON CLUB AND GYMNASIUM.

A uniform charge of \$10.00 a year is made upon all students, to include membership in Houston Club with all of the usual club privileges, and the use of the gymnasium and its facilities, including locker and the use of Franklin Field, excepting only at such times as the Field may be in use by athletic teams.

#### PHYSICAL EDUCATION.

In the School of Dentistry two hours a week of graded physical education is an obligatory part of the curriculum for all students of

the first year, excepting those who have previously had an equivalent course of physical training elsewhere and those who for this or by reason of physical disability may be excused by the Director of Physical Education.

### ARRANGEMENT OF SESSION.

*With the session which began September 28, 1917, the regular course of instruction leading to the degree Doctor of Dental Surgery consists of four annual sessions, each in separate academic years.* Students who have matriculated in and are now pursuing the three years curriculum will be permitted to continue their preparation for graduation under the terms and arrangement of course heretofore governing the three years curriculum.

Students matriculating for the session beginning September 27, 1918, will be required to pursue the four years curriculum.

The object of the administration in lengthening the course of instruction leading to the degree Doctor of Dental Surgery is to provide more time for the student in which to prepare himself for dental practice.

The constantly increasing development of knowledge of the relations of the mouth and teeth to bodily health and the importance of dental and oral disorders in their individual and public health relations has made it imperatively necessary for the dental practitioner who hopes to efficiently meet the public demand for intelligent and skilful service to be thoroughly grounded in the fundamental medical sciences, particularly of Anatomy, Physiological Chemistry, Physiology, Pharmacology, Bacteriology and Pathology in both their general and special relations.

The restorative and art procedures of dentistry unless based upon a thorough training in these fundamental sciences are without a solid foundation and their practice otherwise becomes purely empirical.

It is the purpose of the four years course to afford needed time and opportunity to develop the educational preparation of the dentist upon a rational foundation. To that end the curriculum will be arranged on the basis of expanding the courses of instruction in the subjects already constituting the three years course for the purpose of securing to the student a more thorough training and a higher grade of educational efficiency rather than by the addition of any considerable number of new branches to the course, which would tend to produce a diffuse rather than an intensive educational result. Such new subjects as are to be ultimately included in the four years curriculum will be of a minor rather than major grade of importance and will be announced

later in connection with the perfected schedules of the later years of the four years course.

The general arrangement of the study schedule of the first two years session of the four years course is as follows:

TENTATIVE SCHEDULE FOR THE FIRST YEAR OF THE FOUR YEARS'  
DENTAL COURSE.

The length of the course is 34 weeks of  $5\frac{1}{2}$  days each, 8 hours per day—1,496 available hours.

SUBJECTS.	LECTURES.	LABORATORIES.
Dental Anatomy and Modeling Tooth Forms Laboratory.....	.....	64 hours
Advanced Inorganic Chemistry.....	3×16	
Qualitative Chemistry.....	.....	80 hours
Clinical Chemistry.....	1×16	
Histology and Embryology Laboratory and Demonstrations.....	.....	80 hours
Dental Histology.....	1×16	32 hours
Anatomy; Osteology.....	1×16	
Descriptive Anatomy.....	2×32	
Recitation.....	1×32	
Dissection.....	.....	70 hours
Prosthetic Technic.....	1×32	
Prosthetic Technic Laboratory.....	.....	192 hours
Operative Technic.....	1×16	
Operative Technic Laboratory.....	.....	128 hours
Physical Education.....	.....	64 hours
Microbiology, Zoölogy and Botany.....	2×32	48 hours
Dental Physics.....	2×16	



The academic year consists of one session beginning on the last Friday in September, and ending at Commencement, on the third Wednesday in June. The course of instruction is graded.

Laboratory instruction, not only in all of the practical dental branches, but also in Practical Chemistry and Metallurgy, Histology, Microbiology, Physiology, Pharmacology and Osteology, forms a prominent feature of the course.

**TENTATIVE SCHEDULE FOR THE SECOND YEAR OF THE FOUR YEARS' DENTAL COURSE.**

SUBJECTS.	LECTURES.	LABORATORIES.
Anatomy—Dissection.....	.....	70 hours
Anatomy—Surgical.....	1×32	
Bacteriology and Pathology:		
Bacteriology.....	3×16	60 hours
Pathology, General and Bacterial.....	3×16	84 hours
Clinical Chemistry.....	2×16	80 hours
Materia Medica.....	1×16	
Metallurgy.....	1×10	40 hours
Operative Technic.....	.....	24 hours
Operative Clinic.....	.....	160 hours
Orthodontics.....	1×16	48 hours
Physiology.....	4×32	64 hours
Prosthetic Technic.....	1×16	192 hours
Crown-and-Bridge Technic.....	1×16	192 hours

**MID-YEAR EXAMINATIONS.**

The arrangement of subjects constituting the curriculum of the second and third years as specified here and on page 478, *et seq.*, apply only to students in course who have previously matriculated under the three years curriculum; for those entering the course for the session of 1917-18 it is provisional only, and subject to change before the opening of the following session.

In the first-year course final examinations are held about February 1 in Chemistry, Histology and a progress examination in Elementary Anatomy.

In the second-year course, at the same date, a progress examination is held on Elementary Physiology, Applied Anatomy and Materia Medica.

In the third-year course final examinations are held at mid-term in Crown-and-Bridge Work, Dental Ceramics, Anesthesia and Orthodontia and a progress examination in Therapeutics.

### GRADUATION.

At the close of the course, a student who has fulfilled all requirements satisfactorily receives the degree of *Doctor of Dental Surgery* (D.D.S.), under the following regulations:

I. He must be of legal age and of good moral character.

II. He must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction and performed the required practical work in all departments; and his last year of instruction must have been at the School of Dentistry of this University.

III. He must have dissected at least two parts; must have performed thoroughly, and to the satisfaction of the Professor of Operative Dentistry, all the usual dental operations; must have undertaken at least one artificial case comprising a full upper and lower denture, and brought it completed, with the patient, to the Assistant Professor of Mechanical Dentistry, before the fifteenth day of May; and must have prepared for presentation to the Professor of Mechanical Dentistry, before the fifteenth of May, a specimen case to be deposited in the University collection. The required operations, as well as the work on the artificial case, must have been performed in the Dental Institute.

IV. After receiving notice of having successfully passed the final examination, he must enter his name on the Register of Candidates and be present at Commencement to receive the Degree.

### TEXT BOOKS AND WORKS OF REFERENCE.\*

#### FIRST YEAR.

##### Text Books.

##### Works of Reference.

##### *Operative Dentistry:*

Kirk, The American Text Book  
of Operative Dentistry.  
(Fourth edition.)

Black, Operative Dentistry.

##### *Mechanical Dentistry and Metal- lurgy:*

Turner, The American Text  
Book of Prosthetic Dentis-  
try. (Fourth edition.)

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\* In all cases the latest editions should be obtained.

## Text Books.

## Works of Reference.

*Chemistry:*

Richter, Inorganic Chemistry.  
 McPherson and Henderson, A  
 Course in General Chemistry.  
 Medicus, Qualitative Analysis.  
 (Eighth edition.)

*Anatomy:*

Piersol, Human Anatomy.  
 Black, Dental Anatomy.

Tomes, Dental Anatomy.

*Histology:*

Piersol, Normal Histology.

*Dissection Manual:*

Heisler, Practical Anatomy.

*Microbiology:*

Marshall, Microbiology.

Coulter, Barnes and Cowles,  
 Text Book of Botany.

*Dictionary:*

Stedman, Dental Dictionary.

## SECOND YEAR.

*Materia Medica:*

Prinz, Dental Materia Medica  
 and Therapeutics. (Fifth  
 edition.)

United States Dispensatory.  
 Pharmacopœia of the United  
 States.

*Applied Anatomy:*

Cryer, Studies of the Internal  
 Anatomy of the Face.

Ivy, Applied Anatomy and Oral  
 Surgery.

*Physiology:*

Stewart, Manual of Physiology.

Starling, Human Physiology.  
 Hammarsten, Physiological  
 Chemistry.  
 Taylor, Digestion and Meta-  
 bolism.

*Bacteriology:*

Abbott, Principles of Bacteri-  
 ology.

Hiss and Zinsser, Text Book of  
 Bacteriology.

Park and Williams, Pathogenic  
 Microorganism.

Zinsser, Infection and Immu-  
 nity.

*General Pathology:*

Delafield and Prudden, Text  
 Book of Pathology.

Adami, Principles of Pathology,  
 Vol. I.

Ziegler, General Pathology.

## THIRD YEAR.

## Text Books.

*Dental Pathology and Therapeutics:*

Buchard-Inglis, Dental Pathology, Therapeutics and Pharmacology. (Fourth edition.)

*Oral Surgery:*

Brophy, Oral Surgery. A treatise on the Diseases, Injuries and Malformations of the Mouth and Associated Parts.

*Dental Anatomy, etc.:*

Hopewell-Smith, An Introduction to Dental Anatomy and Physiology.

The Histology and Patho-Histology of the Teeth, Dental Microscopy.

*Orthodontia:*

Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillæ.

*Dental Metallurgy:*

Brady, Dental Metallurgy.

## Works of Reference.

Adami, General Pathology.

Blair, Surgery and Diseases of Mouth and Jaws.

Medical and Surgical Clinics at the University Hospital are held from 12 M. to 2 P. M., on Wednesdays and Saturdays, and are open to the dental classes. These are in addition to the Dental Clinics at the Philadelphia Hospital, on Saturdays at 12 o'clock, and to the Oral Surgical Clinics as noted on the roster.

## OPERATING-ROOM, LABORATORIES, ETC.

The operative clinic room and laboratories are spacious and well equipped, affording ample facilities for the practical training of the student.

The dissecting-room is large, well lighted, thoroughly ventilated, and furnished with ample material for the successful prosecution of anatomical studies.

## GRADATION OF THE COURSE.

In order to facilitate work in the practical branches, and to economize the student's time, the regular session is so arranged that students



during the first year are required to devote the time equally to dental, histological and chemical laboratory work.

Until those matriculated under the three years curriculum shall have completed that course the second and third year students will have practically the entire forenoon of each day for dental work. Thus ample opportunity is afforded for practice in Operative and Mechanical Dentistry. In the latter branches, the students are divided into sections, devoting to practice in the operating-room the time not otherwise engaged.

This plan of gradation enables the second-year student to be examined on Materia Medica, Bacteriology, Applied Anatomy and Physiology, and on Progress in Operative and Mechanical Dentistry. Such an arrangement is economical not only in point of time, but also in facilitating a student's acquirement of knowledge in the remaining branches.\*

## OUTLINE OF THE TWO REMAINING YEARS OF THE THREE YEARS COURSE.

### SECOND YEAR.

1. Students of the Second-year Class will attend lectures on Materia Medica, Physiology, Operative and Mechanical Dentistry, Dental Pathology and Therapeutics, Bacteriology and Bacterio-Pathology, Applied Anatomy and Oral Surgery. Work in Practical Anatomy (dissecting) is finished during this year.
2. They will pursue Operative and Mechanical Work, with the privilege of the operating-room and appliances during the morning and afternoon clinics.
3. Examinations at mid-term of the second year will be held upon one-half of the subject of Applied Anatomy, Materia Medica, and Physiology. At the close of the term upon final Physiology, Materia Medica, Bacteriology and Bacterio-Pathology, Applied Anatomy and Progress in Operative and Mechanical Dentistry.

### THIRD YEAR.

1. Students of the Third-year Class will continue the practical work in Operative Dentistry, Mechanical Dentistry and Dental Metallurgy, and the lectures on these subjects, together with Dental Pathology and Therapeutics, Oral Surgery and Orthodontia.

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\* The authorities of the school reserve the right to make any modifications in connection with the announcements embodied in this catalogue that may from time to time be required or be deemed wise without the formality of further notice.

2. Examinations at mid-term of the third year will be held upon: Ceramics, Crown-and-Bridge Work, Orthodontia, Therapeutics and Anesthesia.
3. At the close of the term, examinations will be held upon Operative Dentistry, Mechanical Dentistry, Dental Pathology, and Therapeutics, Oral Surgery, Dental Metallurgy, Dental Histology and Histopathology and Comparative Odontology.

The lectures on OPERATIVE DENTISTRY embrace the comparative anatomy of the teeth; the functions and microscopical peculiarities of the dental organs; the development of teeth and their component tissues; a full description and elucidation of all dental operations, such as filling, extracting and root canal treatment; the pathological relations of the teeth to the other parts of the system; and a minute clinical description of all diseases related to dental surgery or of interest to the dentist. The methods taught are demonstrated in laboratories and clinics.

The course of instruction in MECHANICAL DENTISTRY is a graded one, and is arranged to embody in the teaching of the first year the fundamental principles of prosthetic work, including the properties of the materials used for prosthetic purposes and the various mechanical processes involved in their utilization; in the second year a more specific and extended instruction in these procedures is given, and the finger-skill necessary in the usual mechanical operations is developed; while in the third year the student is instructed in the choice of means for attaining a given end, and the selection of this means in accordance with the requirements of specific cases. During the third year attention is given to the more highly specialized branches of Prosthetic Dentistry under qualified demonstrators.

Instruction in Mechanical Dentistry is accomplished by the didactic lectures illustrated by means of heroic models, lantern slides, and black-board drawing; by graded technic courses, which include in each year illustration of the lecture topics by actual demonstration of the processes before the class, and the manufacture of the appliances so illustrated by the class, divided into small sections for systematic work; by specimens on exhibition in the general laboratory illustrative of successive stages in the technic requirements; and by abundant clinical practice.

The lecture course will include, in addition to dental prosthesis, the replacement of tissues about the mouth not strictly dental, and the manufacture of appliances for the remedy of palatal defects.

The instruction in ORTHODONTIA will be by means of lectures, quizzes, a technic course and clinical practice; and attention will be specially paid to the treatment of cases in the light of their etiology.

The lectures on CHEMISTRY embrace the study of chemical physics and principles of chemical philosophy, together with a detailed consideration of the principal elementary substances and their compounds; and of the fundamental principles of Organic Chemistry, including the classification of organic compounds, and the special study of typical members of the different classes. Special attention is also given to the laws of chemical affinity, and the conditions under which they are modified, especially as they relate to the preparation of mixtures and prescriptions.

The course in PRACTICAL CHEMISTRY in the laboratory includes exercises in chemical manipulation; the study of the chemical properties of the principal metals; the reactions of acids and their combinations; and the general principles of qualitative analysis, especially as they relate to the detection and separation of the metals and compounds of interest to practitioners of Dentistry. Each student is provided with a separate table and apparatus, and is required to perform all the usual chemical manipulations under the directions of demonstrators, as well as to exhibit by written formulæ all reactions involved in his tests.

HUMAN ANATOMY is taught in its relations to all the branches of medical science, including Dentistry. The lectures are illustrated by fresh dissections of the human body, and by a rich museum of anatomical specimens, well-executed models and drawings.

In addition to the lectures and demonstrations by the Professor of Anatomy, a course of demonstrations in Applied Anatomy is given to the students of the second year. The course consists of a drill by recitations and demonstrations of dissections upon those anatomical regions with which the dental and oral surgeon is especially concerned. Practical instruction in general and special HISTOLOGY will be given in the histological laboratory to the students of the first year, the class being divided into sections. The laboratory is furnished with excellent microscopes, and all apparatus necessary to enable the student to become familiar with the most approved methods of microscopical technology and with the minute structure of all the tissues and organs. Special facilities are afforded for original research; for this purpose the laboratory is open throughout the year, except during July and August.

The OSTEO-SYNDESMOLOGICAL LABORATORY is under the supervision of the Professor of Anatomy and Instructor in Osteology. In this laboratory, the first-year student is required to make himself familiar with the skeleton and the articulations as a part of his instruction in practical anatomy.

The course in **PHYSIOLOGY** includes thorough instruction on the subject of animal physiology, with special reference to the physiology of Man.

The lectures on **DENTAL PATHOLOGY** include such portions of general pathology as have a bearing upon the special subjects taught.

Dentition and its possible pathological results receive careful attention, followed by a detailed consideration of all the diseases to which the teeth and surrounding parts are liable; the normal and abnormal character of the oral secretions, and the direct and remote relations that the pathological conditions of the mouth sustain to other portions of the system.

The treatment required under each head is explained, and the recognized processes necessary to secure a return to normal conditions are minutely detailed.

**MATERIA MEDICA.**—This subject is covered by a lecture course of one hour per week during the second semester of the first year and two hours per week during the entire second year. The aim is to familiarize the student with the pharmacology of all of the important drugs that he will employ in the Infirmary during his college course, and later on, in actual practice. A complete description of the various medicinal agents including their origin and preparation and the methods of their application, together with the nature and action of the more important poisons and their antidotes, is given.

The writing of prescriptions receives due consideration, and the student is required by practical exercises to familiarize himself with its technique.

The course is amply illustrated by practical demonstrations and by selected specimens, and the simpler methods of compounding pharmaceutical preparations.

The course is concluded with a discussion of those agents which are employed in that branch of treatment generically termed physical therapeutics.

A progress examination on the subject of *Materia Medica* is held at the end of the first year and a final examination on the entire subject is held at the end of the second year.

**MICROBIOLOGY AND BACTERIO-PATHOLOGY.**—The growing importance of this subject in relation to dental pathology and therapeutics has made necessary certain fundamental modifications in the technique of practically all dental operations. A clear understanding of the practical bearing of the life processes of microorganism has become a necessity for intelligent and successful dental practice, just as it has similarly for surgical practice.



The course is so arranged with respect to the requirements of the dental practitioner that he will afterwards be able not only to correctly apply the most approved methods for preventing and combating the action of microorganisms and to develop an efficient system of antiseptic technique in connection with his work, but he will be trained in the various methods that will enable him to study the infective factor which is the exciter of pathological conditions in special cases arising in his practice.

The course consists of both didactic and practical instruction in bacteriology, mycology, protozoölogy, general pathology and the pathology of infections.

The didactic lectures deal first with a preliminary discussion of the position of microorganisms in biology following which the morphologic and physiologic characteristics of bacteria are considered, including methods of isolating, cultivating and identifying the various species; with a discussion of the action of germicidal agents; this is followed by a discussion of the higher fungi and protozoa bearing an etiological relationship to pathologic processes of importance to the dental practitioner.

A continuance of the didactic teaching deals with that part of the subject of pathology treating of infectious processes; including immunity and bacterio-therapy in the treatment of infections.

The Laboratory Course includes the following subjects:

- I. Microscopic technique including a study of the different morphologic types.
- II. Preparation of culture media and practical demonstration of the various methods of sterilization.
- III. Methods of obtaining, from mixtures of various microorganisms, individual species in pure culture.
- IV. Study of pathogenic organisms; their isolation and identification; also their relation to disease processes, including demonstrations of the manner in which they produce disease.
- V. Demonstrations in general pathological histology.
- VI. Mechanism of immunity, with demonstration of the technique of the various immunity reactions and other laboratory methods of diagnosing the nature of infections.
- VII. Asepsis, with practical demonstrations of methods employed for the sterilization of instruments and materials employed by the practitioner.
- VIII. Antisepsis in dental surgery, with methods employed for determining the germicidal value of various substance employed for the destruction of microorganisms.

- IX. A study of the flora of the mouth of a patient is required of each student, a detailed report of which must be submitted for examination.

The lectures on these subjects are appropriately illustrated and accompanied by suitable demonstrations whenever possible. The Laboratory of Microbiology is thoroughly equipped for practical instruction in that subject, including an ample number of high grade microscopes for the special use of students in the study of that branch. Examination upon the subject of microbiology and related pathology will be a prerequisite to the obtaining of the dental degree.

Provision has been made in the laboratory for advanced students to pursue further studies in relation to disease conditions affecting the patients with whom they are occupied in the clinic; the work is carried out under the direction of the laboratory staff.

ORAL SURGERY is a specialty which is a distinct outgrowth from Dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the surgical and pathological anatomy of the mouth, jaws, and associate parts; the etiology, diagnosis and treatment of lesions of these parts; the most advanced method of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and personally treat cases under the supervision of the Professor of Oral Surgery and his assistants.

Special facilities for the performance of oral surgical operations and for the care of patients are provided in the University Hospital and the Philadelphia Hospital.

COMPARATIVE AND HUMAN ODONTOLOGY, DENTAL HISTOLOGY AND HISTOPATHOLOGY.—The course of lectures and demonstrations comprising the instruction given on this subject is intended to expound the facts and principles underlying the sciences of Comparative and Human Odontology, Dental Histology and Histopathology, to simplify and elucidate the problems connected therewith, to assist the students' systematic study of the same, to present, as they may arise, new facts and theories of competent authorities and to especially emphasize those aspects of the subject which have practical bearing upon the science and art of Dental Surgery. It embraces the study of the functions, numeration, topography and morphology of the denti-

tions of fishes, reptiles and mammals, their methods of implantation and replacement, their homologies, evolution, anatomy, relationships and eruption and the functions of their component parts.. Comparative Odontology is introduced in an illustrative way, and is only used in a subservient sense, as explanatory of the odontology of the teeth of man and the primates.

The histology and histopathology of the teeth and associated parts are considered from the academic and practical standpoints, and include microscopical examinations of the hard and soft parts and their structural modifications, the histogenesis of the teeth of fishes, reptiles and mammals, and the minute anatomy of the chief pathological conditions of the human dental organs.

The lectures are fully illustrated by means of lantern slides, microscope slides, table specimens, charts, diagrams and blackboard drawings.

### CLINICAL PRACTICE.

Seven hours daily (except on Saturdays) are spent in actual practice under the supervision of the instructors; on Saturdays from 9 A. M. to 12 M. Every student is required to provide his own instruments, except those for extracting. He is required to keep them in perfect order, and will be furnished with a place in which they can be locked when not in use.

### INFIRMARY AND LABORATORIES.

The Infirmary and Laboratories are open to the students for practice every day during the week, except on Saturday afternoons, which are reserved for clinics that may be given by members of the Faculty or instructors.

The Infirmary and Laboratories are open throughout the year, except during July and August.

### THE DENTAL GRADUATE SCHOOL.

The Dental Graduate School offers facilities for advanced instruction in the various departments of Dental Science and Art, including advanced Crown-and-Bridge Work; Inlay and Ceramic Work; Operative Technic; Dental and Oral Prosthesis; and Dental Bacterio-Pathology including Sialosemeiology.

The courses are open only to graduates of recognized dental educational institutions.

For detailed information respecting any of the courses offered in the Dental Graduate School, application should be made to Dr. A. C. Eglin, Director, Fortieth and Spruce Streets, or to Dr. Charles R. Turner, Dean.

## LIBRARY, MUSEUM AND CABINETS.

The Library of the Institute consisting of a collection of several thousand volumes containing the standard and periodical literature of dentistry, is believed to be the most extensive and relatively complete repository of dental literature extant.

THE WISTAR AND HORNER MUSEUM, founded about one hundred years ago, and annually augmented, is unequaled in the United States for the number and variety of its specimens of the normal and the morbid anatomy of the human body. It also contains a large number of preparations in Comparative Anatomy; a rich collection relating to Dentistry, such as the different stages of dentition, abnormal conditions of the teeth, mandibles of the lower animals, etc.; and an extensive collection of models. This collection is deposited in the building opposite Logan Hall, erected by the late General Isaac J. Wistar, and called the WISTAR INSTITUTE OF ANATOMY AND BIOLOGY. The Museum is open every week day, excepting holidays, from 9 A. M. to 4 P. M., throughout the sessions. The matriculation fee in the School of Dentistry confers admission to the Museum.

## TUITION FEES AND EXPENSES.\*

The tuition fee is \$200.00 per annum and is due and payable *in advance* in two equal parts, on matriculation and February 1, respectively. Remittances should be in cash, or by bank draft, certified cheque, or postal money order drawn for the exact amount due, made payable to the University of Pennsylvania, and paid to W. O. Miller, Bursar, Room 102, College Hall.

A matriculation fee of \$5.00 must be paid by all new students, whether previously registered in the University or not.

The matriculation fee must be paid in person and not forwarded in advance.

For late matriculation a fee of \$5.00 must be added to the regular matriculation fees.

Under no circumstances are any changes made in the established fees.

Every student shall, upon entering the University, make a deposit of \$10.00 to cover loss, damage, or breakage of University property, library fines, or any charge not paid by the student in some other way. A student whose deposit is by charges against it reduced to \$5.00 or less shall be required to pay a sum sufficient to restore the deposit to its original amount. No deposit or balance remaining on a

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\* For Estimates of Expenses, see p. 45.



deposit shall be finally repaid to a student until he shall have been graduated or shall have formally withdrawn from the University.

Students of the School of Dentistry may attend, without additional charge, the lectures and recitations except in certain special courses in any other department of the University. This privilege may be obtained only by the concurrent approval, in writing, of the respective Deans.

Instruments for the first year can be procured at from \$90 to \$100. A dental engine will be needed for the second year, costing from \$50 to \$60. Additional instruments will be required for the second-year and third-year work. These instruments may be utilized in general practice.

Rooms may be had at the University Dormitories or in houses near the University, and board may be had in private boarding houses in the immediate vicinity of the University. In any case the cost of board and lodging will be from \$6.00 a week upward.

The Institute is provided with ample locker facilities for the storage of instruments, apparel, etc. It is to be understood, however, that the lockers are provided solely as an accommodation, and that in assigning them to the students the School assumes no responsibility whatever with respect to the care or loss of the contents.

*First Year.*

Matriculation Fee (paid once only).....	\$5 00
Tuition Fee.....	200 00
Gymnasium and Houston Club Fee.....	10 00
Fee for Dissection.....	5 00
Use of Dissecting Material (one part).....	2 00
Breakage Deposit.....	10 00

*Second Year.*

Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Fee for Dissection.....	5 00
Use of Dissecting Material (one part).....	2 00

*Third Year.*

Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00

*Fourth Year.*

Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00

Further information may be obtained from

CHARLES R. TURNER, Dean.

The Dean's office is in the Dental Institute, Fortieth and Spruce Streets. Office hours: 9 A. M. to 12 noon, daily.

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Since the foundation of this School, the total number of graduates has been 3838.

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The subjoined reports give some conception of the character and mass of work performed in the Operative and Mechanical Departments; but the amount of costly material and careful attention necessary for the insertion of 10,213 gold fillings can be appreciated only by the experienced operator.

The number of patients treated (13,137) exhibits the extent of the Dental Infirmary service to a large class of persons of limited means.

#### OPERATIVE DEPARTMENT.

Gold Fillings.....	10,213
Tin Fillings.....	9,046
Amalgam Fillings.....	7,498
Cement Fillings.....	3,895
Treatment of Pulp and Pulp Canals.....	14,890
Porcelain Inlays.....	543
Gold Inlays.....	469
Miscellaneous cases.....	9,479
	<hr/>
	56,033

One hundred and eight ounces (9 lbs.) of gold were used for fillings, exclusive of that used for plate and crown work in the laboratories.

#### PROSTHETIC DEPARTMENT.

Full Dentures (Clinical, 319—Technic, 3,331).....	3,650
Partial Dentures (Clinical, 276—Technic, 1,240).....	1,516
Repair Cases (Clinical, 130—Technic, 580).....	710
	<hr/>
	5,876

## CROWN-AND-BRIDGE DEPARTMENT.

Artificial Crown Work (Clinical, 379—Technic, 2,154).....	2,533
Bridge Work (Clinical, 77—Technic, 476).....	553
Miscellaneous Crown-and-Bridge Cases (Clinical).....	66
Miscellaneous Cases (Clinical, 195—Technic, 733).....	928
	<hr/>
	4,080

## ORTHODONTIA.

106 Practical cases; 504 Technic cases.....	610
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## ORAL SURGERY DEPARTMENT.

Oral Surgery Cases.....	86
Extractions .....	11,990
Root Amputations.....	75
Dental Cysts.....	25
	<hr/>
	12,176

## ESTIMATE OF EXPENSES.

## FIRST YEAR.

Matriculation Fee.....	\$5 00
General Tuition Fee.....	200 00
Gymnasium and Houston Club Fee.....	10 00
Dissecting Fee.....	5 00
Use of Dissecting Material (one part).....	2 00
Technic Fee.....	10 00
Breakage Deposit.....	10 00
Books (about).....	36 00
Instruments (about).....	125 00
Material for Histological Work.....	4 00
Board, 35 weeks at \$6.00.....	210 00
Washing, 35 weeks at 75 cents.....	26 25
	<hr/>
Total, first year.....	\$643 25

## SECOND YEAR.

General Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Dissecting Fee.....	5 00

Use of Dissecting Material (one part).....	\$2 00
Material for Prosthetic Technic Work.....	10 00
Dental Engine, instrument (about).....	60 00
Additional instruments (about).....	130 00
Books (about).....	30 00
Board, 35 weeks at \$6.00.....	210 00
Washing, 35 weeks at 75 cents.....	26 25
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Total, second year.....	\$683 25

## THIRD YEAR

General Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Material for Prosthetic Technic Work.....	10 00
Instruments (about).....	30 00
Books about.....	10.00
Board, 37 weeks at \$6. ....	222 00
Washing, 37 weeks at 75 cents.....	27 75
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Total, third year.....	\$509 75

## FOURTH YEAR.

General Tuition Fee.....	\$200 00
Gymnasium and Houston Club Fee.....	10 00
Board, 37 weeks at \$6.00.....	222 00
Washing, 37 weeks at 75 cents.....	27 75
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Total, fourth year.....	\$459 75

In the Senior year an additional item of \$5.00 for rental of cap, gown, and hood for Commencement should be added.

In estimating, a liberal allowance should be made for personal expenses.

These include expenditures for white operating jacket, used in the clinical work, gymnasium suit (first year), class dues, etc.

The above estimate for board is the minimum obtainable; the average will be \$7 to \$8 per week.



## SCHOOL OF DENTISTRY.

### THIRD YEAR CLASS.

NAME.	RESIDENCE.	CITY ADDRESS.
Abel, Stuart Granville	Hellertown	620 N. 43d St.
Alberstadt, David Abraham	Philadelphia	2136 N. 9th St.
Albert, Earl Harry	Lebanon	Dorm. 35 Memorial Tower
Albrecht, Garrett	South Bethlehem	4048 Walnut St.
Aleman, Luis Carlos	Panama City, Panama	254 S. 38th St.
Allen, Earl Judson	Hancock, N. Y.	4039 Chestnut St.
Anderson, Harold Edward	Hoboken, N. J.	3702 Locust St.
Arias, Juan Bautista	Panama City, Panama	4060 Irving St.
Asenjo, Luis Onofre	Santiago, Chile	300 N. 40th St.
Aungst, Harvey Marlin	Philadelphia	5001 Chestnut St.
Bailey, George Godfrey, Jr.	Manasquan, N. J.	3800 Locust St.
Bailey, Harold Curtis	Sharon	4039 Chestnut St.
Barash, Bella Broyde	New York, N. Y.	3812 Spruce St.
Bartsch, Alexander Robert	Jersey City, N. J.	4039 Chestnut St.
Bauer, Joseph Charles	West Haven, Conn.	3800 Locust St.
Bauerle, John Augusto	Copihue, Chile	300 N. 40th St.
Becker, Leonard Runyon	Philadelphia	2424 N. 20th St.
Bender, Walter Ellsworth	Brooklyn, N. Y.	Dorm. 38 Bodine
Berger, Abbott	New York, N. Y.	214 S. 37th St.
Bernhardt, Walter Jacob	Wayland, N. Y.	3612 Walnut St.
Berryman, John Wesley	New York, N. Y.	113 S. 38th St.
Bethencourt, Cayetano		
L.D.S., R.C.S. (Edinburgh)	Las Palmas, Canary Island	109 S. 40th St.
Bivins, Leon Waters	Philadelphia	1819 Addison St.
Boone, Ralph Willard	Presque Isle, Me.	233 S. 40th St.
Borneman, William Russell	Bechtelsville	204 De Kalb St.
Bouton, Clyde Sanford	Pine Plains, N. Y.	4039 Chestnut St.
Braem, Ernest Henry	Sag Harbor, L. I., N. Y.	3703 Locust St.
Bragman, Samuel	Syracuse, N. Y.	3467 Chestnut St.
Brailove, Edward		
B.S. (Syracuse)	Woodbine, N. J.	811 Union St.
Brennan, Eulogius Joseph	Philadelphia	1839 S. 18th St.
Brenner, Harry Nelson	York	Dorm. 41 Mask and Wig
Brønner, Finn Johannes	Trondhjem, Norway	41st and Baltimore Ave.
Brown, James Ernest	Riverton, N. J.	[412 Seventh St.]
Brown, Roy Henry	Hammonont, N. J.	210 S. 36th St.
Brown, Russell Charles	Trenton, N. J.	3800 Locust St.
Buggy, Vincent Thomas	Philadelphia	1510 Callowhill St.
*Butler, Clarence William	Honesdale	3928 Pine St.
*Camp, Frederick Stanley, Jr.	Stamford, Conn.	4043 Locust St.
Candela, Louis Alvah	Schenectady, N. Y.	Dorm. 45 Bodine
Carter, Samuel Miller, Jr.	Jersey Shore	Dorm. 35 Memorial Tower
Castro, Abraham de	Panama City, Panama	4419 Baltimore Ave.
Christmas, Lawrence Duke	Philadelphia	3911 Olive St.
Clappier, Harold Oerther	Minersville	Dorm. 359 Craig House
Clayton, Robert	Philadelphia	3035 Kensington Ave.
Cogan, Frank William	Bayonne, N. J.	Dorm. 33 Memorial Tower
Cohen, Herbert Edward	Philadelphia	3802 N. 18th St.
Cologne, John Terryl	Fayetteville, Tenn.	3916 Spruce St.
Colt, Harold Dayton	Cambridge Springs	3800 Locust St.
Conklin, Willard Reeves	Garwood, N. J.	3719 Locust St.

\*Withdrawn.

NAME.	RESIDENCE.	CITY ADDRESS.
Connell, George Washington, Jr.	Brooklyn, N. Y.	4048 Walnut St.
Conover, Charles Sterling	Atlantic Highlands, N. J.	4029 Spruce St.
Cooper, Morris Lane	Johnson City, Tenn.	3945 Baltimore Ave.
Covert, Everett Eugene Harrington	Long Branch, N. J.	Dorm. 450 Lippincott
Cuadra, Alberto Joaquin	Granada, Nicaragua, C. A.	300 N. 40th St.
Danforth, Walter Henry	Bristol, Vt.	3912 Spruce St.
Davis, George Courtland	Coatesville	3945 Baltimore Ave.
Davis, Leonard Alexander	Savannah, Ga.	206 S. 36th St.
Dean, William Hannum	West Chester	[115 Magnolia St.]
Deber, Seymour Charles	Port Reading, N. J.	3467 Chestnut St.
Derk, Marshall Glee	Kratzerville	3723 Spruce St.
Deshon, Rafael	Leon, Nicaragua, C. A.	4048 Walnut St.
Dillon, Joseph William	Belmar, N. J.	Dorm. 45 Memorial Tower
Dughi, Lazarus Arthur	Lewistown	3707 Locust St.
Egenmaier, Max Ernst	Frankfurt, Germany	4615 Chestnut St.
Eveland, Ralph Gilliam	Franklin, N. Y.	3912 Spruce St.
Fabiani, Gregorio Ph.G. (Naples)	Maida, Italy	943 Christian St.
Faller, Henry Snyder	Carlisle	3912 Spruce St.
Farrell, Henry William	Middletown, N. Y.	4048 Walnut St.
Fitzpatrick, Francis Joseph	Philadelphia	140 Rector St.
Forkel, Chester Dewey	Rochester, N. Y.	Dorm. 448 Lippincott
Frank, Herbert Paul	New York, N. Y.	3610 Walnut St.
Gabler, John Wilfred	Schenectady, N. Y.	4418 Larchwood Ave.
Gage, Carl Chambers	Syracuse, N. Y.	3800 Locust St.
Ganey, David Joseph	South Bethlehem	4048 Walnut St.
Gifford, Julian Itha	Bainbridge, N. Y.	210 S. 36th St.
Gifford, Julius Ithal	do.	do.
Gilhuly, Holmes Randolph	Newark, N. J.	3912 Spruce St.
Gilmartin, Charles Anthony	Bethel, Conn.	Dorm. 45 Memorial Tower
Giovagnoli, Marco	Florence, Italy	4054 Irving St.
Gosnell, James Bernard	St. Johns, N. B., Canada	3745 Locust St.
Gurnsey, Harry Kincaid	Salt Lake City, Utah	3800 Locust St.
Haas, John Jacob	Town of Union, N. J.	4027 Chestnut St.
Hafely, Warren Lester	Brooklyn, N. Y.	3733 Locust St.
Haller, William Raleigh	Herkimer, N. Y.	3727 Locust St.
Hanold, John Francis	Arlington, N. J.	226 S. 38th St.
Harkrader, Wilbur Talmage	Westfield, N. J.	Dorm. 43 Coxe
Harrington, Arthur Winslow	Adams, Mass.	3731 Locust St.
Hatfield, Whitton Redett	Brooklyn, N. Y.	3800 Locust St.
Haycock, Robert Wilbert, Jr.	Butler, N. J.	214 S. 37th St.
Hayes, Ollington Cornelius, Ph.G.	Newark, N. J.	3716 Locust St.
Hayman, Sylvester	Brooklyn, N. Y.	
Heilbrun, Robert Muhlfelder	New York, N. Y.	3709 Chestnut St.
Henke, Robert August	Schenectady, N. Y.	3912 Spruce St.
Hermann, August Leonard	Paterson, N. J.	
Higgins, Lemuel Woodward	Worcester, Mass.	3721 Locust St.
Hitchner, Elam Martin	Woodstown, N. J.	3800 Locust St.
Hodgkins, Charles Harrington, Jr.	Lamoine, Me.	4039 Chestnut St.
Hoke, Leslie Llewellyn	Oswego, N. Y.	3800 Locust St.
Hollar, Francis Gerald	St. Andrew, Jamaica, B. W. I.	3838 Hamilton St.
Hollingshead, Elmer Percy	Bayonne, N. J.	Dorm. 44 E. F. Smith
Honsberger, Ralph Harry	Lansford	3733 Locust St.
Horner, Frank Kay	Atlantic City, N. J.	4048 Walnut St.
Horwitz, Samuel	Philadelphia	2239 N. 33d St.

NAME.	RESIDENCE.	CITY ADDRESS.
Hoyt, Earle Banks	Atlantic Highlands, N. J.	Dorm. 40 Coxe
Huston, George Washington	Three Springs	238 S. 39th St.
Hyman, Rudolph	Atlantic City, N. J.	3467 Chestnut St.
Jack, Meredith Marston	Philadelphia	1533 Locust St.
Jacobs, Reginald Robert	Buenos Aires, Argentine, S. A.	3539 Locust St.
Jacobus, Arthur Forrest, Jr.	Red Bank, N. J.	3612 Walnut St.
Jaynes, Earl William	Waymart	254 S. 38th St.
Jenkins, Thomas Rodgers	Punxsutawney	Dorm. 40 Memorial Tower
Jerauld, Wesley Frederick	Rumford, Me.	3703 Woodland Ave.
Jeter, Jay Paul	Philadelphia	4041 Locust St.
Johnson, Ethan Alan	Falconer, N. Y.	3912 Spruce St.
Johnson, Lewis Sayre	Augusta, Me.	3937 Pine St.
Jones, Harold Stephen	Slatington	3745 Locust St.
Joseph, Irving	New York, N. Y.	Dorm. 52 Morris
Jossem, Morris Henry	do.	403 S. 40th St.
Keel, Harry Lee	Farmville, N. C.	3912 Spruce St.
Keffer, Edward Brooks	Philadelphia	5971 Drexel Road
Kidd, Howard Ray	Huntingdon	3912 Spruce St.
Kliman, Percy	Syracuse, N. Y.	3467 Chestnut St.
Klotz, Donald Jean	Lansford	6116 Haverford Ave.
Kobre, George	Brooklyn, N. Y.	3815 Spruce St.
Konwiser, Samuel	Newark, N. J.	3945 Baltimore Ave.
Kroll, Frederick Herman	Wilkes-Barre	238 S. 39th St.
Kulich, Clyde DeWald	Philadelphia	5335 N. 13th St.
Lahey, Thomas Robert	Hoboken, N. J.	4048 Walnut St.
Larkin, Martin Joseph, Jr	Carbondale	5636 Walnut St.
Leh, Russell Weir	Egypt	214 N. 37th St.
Lehman, Walter Leonard	Galeton	3800 Locust St.
Levy, Albert	Elmira, N. Y.	4233 Baltimore Ave.
Light, Grant Hobart	Avon	3614 Locust St.
Lincoln, Benjamin Abraham	Philadelphia	1428 N. 7th St.
Linehan, John Herbert	Glens Falls, N. Y.	4013 Locust St.
Loebel, Louis Harris	Philadelphia	1001 N. 6th St.
Logue, Everett Glosser	Williamsport	Dorm. 29 Morris
Ludwig, Jacob Hagenbuch	Bethlehem	4039 Chestnut St.
B.S. (Moravian)	Allegany, N. Y.	3707 Locust St.
McCaffrey, James Edward Felix	Carbondale	10 S. 38th St.
McCawley, Eugene Vincent	Brooklyn, N. Y.	3800 Locust St.
Ph.G. (Med. Chi.)	Oxford	226 S. 38th St.
MacLean, Robert Donald	Dover, N. J.	3924 Spruce St.
Mackey, David Lewis	Philadelphia	2942 Ridge Ave.
Maloney, James Vincent	do.	3908 Spruce St.
Marcovitz, Sidney David	Peekskill, N. Y.	202 S. 36th St.
Martin, J. Lewis	Utica, N. Y.	3727 Locust St.
Martin Victor Aloysius	New Britain, Conn.	113 S. 38th St.
Maxwell, J. Murray	Holstein, Iowa	3800 Locust St.
Meehan, Joseph Patrick	Philadelphia	2735 Germantown Ave.
Meier, Walter	Brisbane, Queensland, Australia	3601 Walnut St.
Melnicoff, Albert Richard	Nice, France	4419 Baltimore Ave.
Menzies, John	Easton	4039 Chestnut St.
Meyer, Joseph Hermann	Jamestown, S. Australia	4419 Baltimore Ave.
Miller, Reuben Enoch	Roxbury, N. Y.	261 S. 38th St.
B.S. (Muhlenburg)	Reading	[814 Penn St.]
Millhouse, Ernest Joseph	East Orange, N. J.	4048 Walnut St.
Minnerly, Walter Francis		
Mochel, John Vincent		
Mooney, John William, Jr.		



NAME.	RESIDENCE.	CITY ADDRESS.
Moore, Harvey Martin	Wilkes-Barre	4013 Locust St.
Moore, Mary Margaret	Osceola Mills	3711 Locust St.
Morgan, Lewis Jones	Wilkes-Barre	4013 Locust St.
Morton, Charles Allen	Portland, Me.	3721 Locust St.
Moynihan, Francis William	Glens Falls, N. Y.	4013 Locust St.
Muir, Roy Alastair	Brisbane, Queensland, Australia	4939 Chester Ave.
Murray, Robert James	New York, N. Y.	Dorm. 401 Brooks
A.B. (Fordham)	Lake George, N. Y.	3707 Walnut St.
Noyes, Kenneth Smith	Olyphant	Dorm. 38 Morris
O'Brien, James	Syracuse, N. Y.	3800 Locust St.
Pabst, Howeth		
Parker, Aloysius Ambrose		
B.A., M.A. (Rock Hill), E.E. (Lehigh)	Brooklyn, N. Y.	3737 Spruce St.
Partridge, Henry Silver	New York, N. Y.	202 S. 36th St.
Pennock, Henry Huff	Altoona	11 N. 34th St.
Phillips, Leon Irving	Westfield	266 S. 38th St.
Plugge, Frederick William	Washington, D. C.	4039 Chestnut St.
Prieto, Justo	Ponce, Porto Rico	3930 Pine St.
Reese, Harry DeVore	Johnstown	
Reilly, Roe Edmond	Elmira, N. Y.	Dorm. 327 Franklin
Reinhard, Walter Bernard	Newark, N. J.	3952 Pine St.
Robbins, Noel Austin	Port Norris, N. J.	3942 Pine St.
Romine, Harry Leo	Morristown, N. J.	4039 Chestnut St.
Rosen, Alexis	Philadelphia	1610 N. Franklin St.
Roth, George Joseph	do.	5176 Parkside Ave.
Rutstein, Myron Mortimer	New York, N. Y.	3709 Chestnut St.
Ruyl, James Peter, Jr.	Brooklyn, N. Y.	3800 Locust St.
Sager, Aubrey Palmer	Philadelphia	3700 Hamilton St.
Sassaman, Harry Milton	Royersford	6235 Lansdowne Ave.
Scheeren, Otto	Ford City	3415 Walnut St.
Schlafer, George Phillip	Delhi, N. Y.	do.
Schmelz, Ella Elizabeth		
Wilhelmina	Philadelphia	229 S. 40th St.
Scholz, James Harold	Fulton, N. Y.	Phila. Gen. Hospital
Shapiro, Martin Theodore	Philadelphia	624 Catharine St.
Shirley, Elwyn Raymond	Whitehall, N. Y.	202 S. 36th St.
Showacre, William Rudisill	Philadelphia	5941 Spruce St.
Silberman, Louis	Cleveland, Ohio	3467 Chestnut St.
Simonetti, Ernest John	Brooklyn, N. Y.	238 S. 39th St.
Simons, William Shirk		
A.B. (Franklin and Marshall)	Marietta	3929 Pine St.
Skau, Clarence McClelland	Schenectady, N. Y.	3912 Spruce St.
Sloan, James Augustus, Jr.	Johnstown	Dorm. 235 Baird
Smith, Milton Cliston	Peekskill, N. Y.	3312 Walnut St.
Smith, Robert	Lewistown	Dorm. 21 Cleemann
Smith, Walter Stillman, Jr.	Mystic, Conn.	3619 Locust St.
Sosnowski, Alexander	Nanticoke	436 S. 40th St.
Spaulding, Ralph Lockwood	Moravia, N. Y.	3612 Walnut St.
Stabinsky, Louis	Watertown, N. Y.	3815 Spruce St.
Stamm, Harold Augustus	Brooklyn Manor, L. I., N. Y.	3812 Spruce St.
Steinhauer, Carl Frederick	Wilkes-Barre	3945 Baltimore Ave.
Stemer, David Llewellyn	Passaic, N. J.	3709 Chestnut St.
Stephanis, Constantine		
A.B. (Bates)	New York, N. Y.	3721 Locust St.
Stone, Henry Arthur	Philadelphia	703 N. 5th St.
Straussberg, George	Newark, N. J.	206 S. 36th St.



## STUDENTS

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NAME.	RESIDENCE.	CITY ADDRESS.
Strenkert, Arthur Cyriac	West Hoboken, N. J.	Dorm. 442 Hopkinson
Sturdevant, Preston Joseph	Wilkes-Barre	Dorm. 224 McKean
Suter, Martin McKinley	New Matamoras, Ohio	3805 Spruce St.
Sutnick, Michael	Trenton, N. J.	3467 Chestnut St.
Taylor, Harold Norman	Sydney, N. S. W., Australia	250 S. 40th St.
Teller, Adrian Reeve	Newburgh, N. Y.	3800 Locust St.
Tentchoff, Demetre D.E.D.P. Chirurgien-Dentiste (Paris)	Salonique, Greece	3413 Walnut St.
Thayer, Frederick William	Dushore	3707 Walnut St.
Thomas, Arthur Raymond	Watertown, N. Y.	26 N. 38th St.
Thomas, Mabel Fern	East Orange, N. J.	6 S. Farragut St.
Thompson, Albert Mark	Somerville, N. J.	3706 Walnut St.
Tomlinson, Arthur Henry	North Troy, N. Y.	3912 Spruce St.
Tomsuden, Henry Louis, Jr.	Brooklyn, N. Y.	Dorm. 377 Hopkinson
Tribe, Leland Foulger	Ogden, Utah	Dorm. 54 Coxe
Trott, Leonard Walter	Adelaide, S. Australia	Dorm. 49 Bodine
Van Valin, Francis Paul	Fleming	4027 Locust St.
Vicente, Jose	Santurce, Porto Rico	3405 Chestnut St.
Wagoner, David Kenneth	Alexandria Bay, N. Y.	4039 Chestnut St.
Wainman, Leon	Utica, N. Y.	2601 Lombard St.
Walsh, Francis Kyran	Troy, N. Y.	3912 Spruce St.
Ward, Ralph Edgar	Union City	3800 Locust St.
Watts, Charles Starkey	Oswego, N. Y.	3731 Locust St.
Waugh, Richard Johnston	Galaz, Va.	3312 Walnut St.
Weaver, Gertrude Flora A.B., B.O. (Susquehanna)	Philadelphia	7103 Woodland Ave.
Welster, Thomas B. Reed	Bozeman, Mont.	Phila. Gen. Hospital
West, Paul Sandt	Asbury Park, N. J.	3731 Locust St.
Weyand, Kenneth Earl Mathias	Red Bank, N. J.	4048 Walnut St.
White, John Lester	Chicago, Ill.	4039 Chestnut St.
Whitesell, Abram Bruce	Hunlock Creek	238 S. 39th St.
Wian, George Irvin	Lewistown	Dorm. 41 Morgan
Wilson, Joseph Clements	Amsterdam, N. Y.	4418 Larchwood Ave.
Wiltbank, Gilbert Mariner	Lewes, Del.	
Wright, Harry Bernard	Philipsburg	Dorm. 43 Morris
Zimmerman, Miles Dewey	Pottsville	3912 Spruce St

## SECOND-YEAR CLASS.

Ace Percy Henry	Nicholson	Dorm. 24 Graduate
Adams Charles Kend ck	York	Dorm. 352 Baldwin
Adams Raymond	New Bloomfield	3952 Pine St.
Aitken William James	Dickson City	3732 Walnut St.
Aldrich Carl Clark V.M.D. (Pennsylvania)	Clarks Summit	3702 Locust St.
Alford, Stuart Emerson	New York, N. Y.	3726 Sansom St.
Alleman, Horace Edward	Jenkintown	[231 Wyncote Road]
Alofsin, Herman	New London, Conn.	3726 Sansom St.
Andaloro, Salvatore Cataldo	Pittston	3934 Pine St.
Anderson, Lillian Sophia A.B. (Barnard)	Brooklyn, N. Y.	4025 Locust St.
Anderson, Rollin Hudson	Muncy	3701 Walnut St.
Anderson, Walter Joseph	Hoboken, N. J.	3702 Locust St.
Angstadt, Paul Wilson	Reading	4043 Locust St.
Aston, Edward Ralph	Kingston	Dorm. 52 Coxe
Bailey, Adams	Mechanicville, N. Y.	3937 Pine St.
Balistocky, Morris	Philadelphia	704 Green St.

NAME.	RESIDENCE.	CITY ADDRESS.
Ball, George Dudley	Fayetteville, N. Y.	Dorm. 55 Rodney
Barder, Charles Andrew	Scranton	206 S. 37th St.
Barker, George Earl	Manasquan, N. J.	Dorm. 450 Lippincott
Barron, John William	Peermont, N. J.	2812 Frankford Ave.
Beattie, John Dator	Warwick, N. Y.	Dorm. 421 McKean
Beck, Samuel Walter	New York, N. Y.	3467 Chestnut St.
Bernstein, David Randolph	Philadelphia	936 Arch St.
Black, Harold Wharton	Bluefield, W. Va.	107 S. 40th St.
Blais, George Henry	Cohoes, N. Y.	3732 Walnut St.
Bobst, Philip Thomas	Bethlehem	4029 Spruce St.
Bogart, Charles Anthony	Philadelphia	5719 Chester Ave.
Bohan, Edward Thomas	Plymouth	4049 Spruce St.
Bond, Maurice Casey	Ithaca, N. Y.	3800 Locust St.
Bowe, Charles Eyppe	Weehawken, N. J.	4029 Chestnut St.
Bowman, Harold Daniel	Gouverneur, N. Y.	3800 Locust St.
Bragin, Jules Wiedman	Brooklyn, N. Y.	3815 Spruce St.
Brodie, Allan Gibson	Newark, N. J.	3912 Spruce St.
Brown, Charles Wesley	Philadelphia	1234 S. 56th St.
Bruenn, Anna Louis Mayer	Catasauqua	5703 Chester Ave.
Buckley, Walter Edward	Branchdale	4027 Locust St.
Burlew, Fountain	Freneau, N. J.	206 S. 37th St.
Buyer, Benjamin Metz, Jr.	Columbia	3727 Spruce St.
Byron, John Burton	West Haven, Conn.	do.
Cahill, John Vincent	Trenton, N. J.	4048 Walnut St.
Caldwell, James Marlin	Lewistown	4013 Locust St.
Callahan, Gerald William	Albany, N. Y.	3942 Pine St.
Cant, William James	Philadelphia	2542 N. 7th St.
Cattanach, James Shaw	Long Branch, N. J.	Dorm. 23 Coxe
Clapper, Charles Arnold	Newburgh, N. Y.	Dorm. 43 Memorial Tower
Clark, Albert Francis	Philadelphia	2003 Christian St.
Clarke, Arthur Grey	Denver, Col.	Dorm. 39 Bodine
Clary, Francis Joseph	Dundee, N. Y.	3727 Spruce St.
Colon, Amado Bernardo	Arecibo, Porto Rico	3405 Chestnut St.
Cooper, Donaldson Beale	Philadelphia	Dorm. 54 Morris
Cooper, Herbert Kenty	Brownstown	3912 Spruce St.
Cooper, John Booth	Nanticoke	3934 Pine St.
Corbo, Angelo Joseph	Dunmore	3707 Locust St.
Croke, Augustine Ethelbert	Hull, England	1832 S. Logan Sq.
Croke, Francis Philip	do.	do.
Cronauer, Edward Anthony	Gallitzin	3945 Baltimore Ave.
Crosier, James Alexander	Bovina, N. Y.	448 S. 43d St.
Crysler, Earl Martin	Dexter, N. Y.	4039 Chestnut St.
Cummings, Willis Nelson		
B.A. (Fisk)	Galveston, Tex.	1202 S. 46th St.
Curry, Walter Heritage	Woodbury, N. J.	266 S. 38th St.
Daleccio, Alejandro	Juana, Diaz, Porto Rico	47 N. 17th St.
Davey, Robert Press	Laurel Springs, N. J.	268 S. 38th St.
Davies, Isaac Edmond	Lansford	Dorm. 38 Morgan
Davis, Lawrence Ross	Narberth	
Davis, Rees Himes	Reading	3943 Locust St.
Davis, Rolly Alexis	Vineland, N. J.	3533 Locust St.
Delehanty, James Bernard		
Charles	Southbridge, Mass.	4048 Walnut St.
Dineson, Magnus Jepson	Perth Amboy, N. J.	Dorm. 21 Memorial Tower
Donnelly, Joseph Cornelius	Pittston	Dorm. 444 Lippincott
Donovan, John Arnold	Rochester, N. Y.	3312 Walnut St.
Downing, Raymond Little	Glen Cove, L. I., N. Y.	4054 Irving St.
Dusinberre, Adelbert Bryan	Geneva, N. Y.	3701 Walnut St.
Edmunds, Edwin A.	Harrisburg	3702 Spruce St.

NAME.	RESIDENCE.	CITY ADDRESS.
Egan, Richard Maurice	Philadelphia	5631 Wyalusing Ave.
Eighmey, Henry Sidney	Cohoes, N. Y.	Dorm. 27 Rodney
Elderkin, Ellsworth Jay	New Rochelle, N. Y.	Dorm. 26 Rodney
Ellis, Milton Clarkson Lightner	Muncy	3701 Walnut St.
Englert, George Aegidius, Jr.	Catskill, N. Y.	920 S. 49th St.
Epstein, Leo	Camden, N. J.	[325 Kaighn Ave.]
Evans, John Clifford	Paterson, N. J.	4039 Chestnut St.
Farrell, Charles Bernard	Johnson City, N. Y.	4049 Spruce St.
Ferguson, Joseph James	Wilkes-Barre	3707 Locust St.
Fischer, Ferdearle Joseph	Brooklyn, N. Y.	Dorm. 397 N. Y. Alumni
Fischer, Harold	Sharon	3727 Spruce St.
Ford, Bernard Joseph	Nanticoke	436 S. 40th St.
Fordham, Merritt Leon	Rio de Janeiro, Brazil, S. A.	3800 Locust St.
Freedman, Paul Jacob	New York, N. Y.	Dorm. 16 Cleemann
Friday, Ernest Dale	Osceola Mills	3714 Locust St.
Friedman, Robert	Hoboken, N. J.	215 S. 33d St.
Friedmann, Jack	Brooklyn, N. Y.	3815 Spruce St.
Gallagher, Leo Joseph	New York, N. Y.	3719 Spruce St.
Gerstner, Samuel Berton	Brooklyn, N. Y.	3815 Spruce St.
Gette, Frank Hamer	Philipsburg	206 S. 37th St.
Gilbert, Elton George	Bath	3805 Spruce St.
Gillie, Robert Ewing	Bernardsville, N. J.	4039 Chestnut St.
Goldblatt, Baines Alvoy	Rochester, N. Y.	3815 Spruce St.
Goldfield, James Edward	Philadelphia	423 Ritner St.
Goldstein, Jacob	Woodhaven, L.I., N. Y.	3904 Baltimore Ave.
Good, Chester Abraham	New Cumberland	3814 Spruce St.
Goodfriend, David Joseph	Philadelphia	1633 Federal St.
Goodman, Irving Isadore	Newark, N. J.	3715 Locust St.
Grant, Harold Cram	Bangor	Dorm. 382 Lippincott
Gray, George Westphal	Springfield, Mass.	3950 Pine St.
Greeson, Harlan Bailey	Fairbury, Neb.	3800 Locust St.
Groth, Geneva Elfreda	Philadelphia	3436 N. 13th St.
Haffner, Frederic LeRoy	New York, N. Y.	4039 Chestnut St.
Hager, Fred Alonzo	Johnstown	Dorm. 207 Leidy
Haig, Norman Russell	Philadelphia	5012 Catharine St.
Haight, Loyd Romaine	Ritzville, Wash.	450 S. 43d St.
Hammond, Hollis Henry	Lake George, N. Y.	4039 Chestnut St.
Handler, Aaron Isadore	Harrisburg	3467 Chestnut St.
Harris, Courtney Sinclair	Westwood, N. J.	4039 Chestnut St.
Harris, Irving Hermann	Bayonne, N. J.	Dorm. 33 Memorial Tower
Hatch, Frederic Austin	Brewer, Me.	3937 Pine St.
Haverkost, William Amos	Mahanoy City	3952 Pine St.
Haymond, Walter Creed	Springville, Utah	Dorm. 329 Franklin
Henderson, Archibald Ballintyne	Yonkers, N. Y.	3706 Spruce St.
Henderson, Howard Cortlandt	Vineland, N. J.	[Palmyra, N. J.]
Hilditch, Leon Moore	Thompsonville, Conn.	3618 Locust St.
Hiller, Albert Walter	Rochester, N. Y.	231 S. 40th St.
Hinchman, Henry Carlisle, Jr.	Johnstown	Dorm. 234 Baird
Hinterleiter, Harold Esser	Carlisle	113 S. 38th St.
Hodgman, D. Munger	Princeton, Ill.	3706 Locust St.
Hoefter, Frederick Henry	Hammonton, N. J.	3612 Locust St.
Holt, Augustus Bacon	Westport, N. Y.	Dorm. 11 Rodney
Houghton, William George	Philadelphia	3714 Locust St.
Hummel, Frederick William	Greenwich, Conn.	113 S. 38th St.
Hutchinson, George Willis	Augusta, Me.	3937 Pine St.
Hutchison, Horace Cook	Johnstown	5023 Catharine St.
*Hyde, John Francis	Camden, N. J.	[1600 S. 6th St.]
Iveney, Kenneth Robert	Northeast Harbor, Me.	3937 Pine St.

\* Withdrawn.



NAME.	RESIDENCE.	CITY ADDRESS.
Ivory, Thomas Henry	Norwich, N. Y.	4027 Locust St.
Jackson, Mamie	St. Albans, England	
Jagust, Samuel Henry	New York, N. Y.	3933 Pine St.
James, William Evans	Olyphant	3706 Spruce St.
Jenkins, William Henry	Englewood, N. J.	26 N. 38th St.
Jennings, Edward Joseph	Trenton, N. J.	Dorm. 46 Morgan
Johnson, Hubert Ray	Falconer, N. Y.	3725 Spruce St.
*Jones, Harold Gunton	Bloomsburg	3745 Locust St.
Jones, Horace Edgar	Portland, Ind.	3935 Pine St.
Judge, Newell Thomas	Carbondale	2003 Christian St.
Keator, Richard Robinson	Fleischmanns, N. Y.	261 S. 38th St.
Keeler, Lawrence Stanley	Thompsonville, Conn.	3618 Locust St.
Kehler, Edgar	Locust Dale	Dorm. 207 Leidy
Kessler, Milton Mendel	Seattle, Wash.	3815 Spruce St.
Kilbourne, George Lewis	Bristol, Vt.	Dorm. 43 Memorial Tower
Killen, Joe Wheeler	Binghamton, N. Y.	3733 Spruce St.
Killmer, Russell Vincent	Fonda, N. Y.	3726 Walnut St.
King, Edward Carlisle	Grove City	Dorm. 38 Morgan
Knight, Gerald Thomas		
B.S. (St. Johns)	Scranton	Dorm. 443 Hopkinson
Koenig, Ewing Mears Douglas	Carbondale	266 S. 38th St.
LaCava, Dominic Vincent	Danbury, Conn.	3723 Spruce St.
Lance, George Moore	Middle Valley, N. J.	126 S. 39th St.
Lau, Tai Chi	Canton, China	3645 Locust St.
Lerch, Guy Schubert	Canton, Ohio	Dorm. 44 Cox
Lieberman, Isadore Marcus	Philadelphia	517 N. Franklin St.
Lipkowitz, William	do.	228 Pine St.
Littig, Sibley	Newton Highlands, Mass.	Dorm. 206 Leidy
Lofgren, Carl Axel Raymond	Jamestown, N. Y.	3400 Walnut St.
Lowery, Robert Paul	New Castle	4039 Chestnut St.
Luisi, Anthony	Roseland, N. J.	230 S. 38th St.
McKernan, John Faber	Ridley Park	
McLaren, George Dewey	Harrison, N. J.	223 S. 36th St.
Maglaughlin, Stuart Hamlin	Altoona	3912 Spruce St.
Malick, Jean Babon	Urmiah, Persia	3725 Walnut St.
Manning, William Augustus	Johnson City, N. Y.	4049 Spruce St.
May, Norman Leroy	Butler	3246 Chestnut St.
May, Walter Charles	Carbondale	266 S. 38th St.
May, William Watson	Long Eddy, N. Y.	107 S. 40th St.
Mercer, James Raymond	New Cumberland, W. Va.	Dorm. 55 Rodney
Miethke, Arthur George	Brooklyn, N. Y.	Dorm. 397 N. Y. Alumni
Mintz, Herman	New York, N. Y.	4233 Baltimore Ave.
Mishkind, William Dewey	do.	3709 Chestnut St.
Mitchell, Joseph Maxwell	White Plains, N. Y.	Dorm. 206 Leidy
Mohn, Peru Theophilus		
A.B. (Muhlenberg)	Gowen City	3805 Spruce St.
Mooney, Joseph Anthony	Brooklyn, N. Y.	4039 Chestnut St.
Morris, James Harold	Middletown, N. Y.	3912 Spruce St.
Moskowitz, Maurice	Pittston	3815 Spruce St.
Motzenbecker, Francis Peter	Newark, N. J.	Dorm. 23 Cox
Moyer, Laura Mary	Womelsdorf	3713 Locust St.
Murdock, Theodore Rose	Red Bank, N. J.	Dorm. 23 Provost Tower
Murphy, Charles Shannon	Ogdensburg, N. Y.	3905 Walnut St.
Murray, Marie Smith	Brooklyn, N. Y.	4025 Locust St.
Newitt, Ervin Sprague	Dorranceton	3903 Spruce St.
Newman, Eugene Warren	Red Bank, N. J.	Dorm. 23 Provost Tower
Newmark, Arthur	Philadelphia	2839 Girard Ave.
Neylon, James	Brooklyn, N. Y.	3719 Spruce St.
O'Boyle, Leo John	Dunmore	230 S. 38th St.

\*Withdrawn.



NAME.	RESIDENCE.	CITY ADDRESS.
O'Boyle, Thomas Francis	Dunmore	230 S. 38th St.
O'Connor, Frederick Harrison	Jamaica, N. Y.	do.
O'Neil, Bernard Thomas	Westchester, N. Y.	do.
O'Neil, Edmond Mark	Hornell, N. Y.	Dorm. 102 Brooks
*Otto, Edwin Walter	Salem, Ore.	4041 Locust St.
Padwe, Walter	Jersey City, N. J.	Dorm. 42 E. F. Smith
Padula, James Louis	Newark, N. J.	4029 Spruce St.
Parker, John Wesley, Jr.	Philadelphia	6120 Greene St.
Patton, Charles Heston	West Chester	4039 Chestnut St.
Pearlman, Aaron	Bangor	3815 Spruce St.
Peebles, John Donald	Titusville.	3904 Baltimore Ave.
Perin, Joseph Alexander, Jr.	East Orange, N. J.	4039 Chestnut St.
Perlman, Bernard	Philadelphia	5176 Viola St.
Peterson, Ernest Werner	Perth Amboy, N. J.	Dorm. 21 Memorial Tower
Proper, George Henry	Saratoga Springs, N. Y.	3950 Pine St.
Putney, Raymond Ernest	Phoenix, Ariz.	3745 Locust St.
Pyle, Joseph Martin	Cossart	3537 Locust St.
*Restrepo, Octavia Jose	Medellin, Colombia, S. A.	231 S. 40th St.
Riggall, Charles Wilson, Jr.	Philadelphia	2013 N. 29th St.
Ritz, Donald Zerfing	Scranton	206 S. 37th St.
Rivkin, Joseph	Brooklyn, N. Y.	3933 Pine St.
Rochlin, Morris	Passaic, N. J.	3815 Spruce St.
Roll, Charles Weissert	Trenton, N. J.	Dorm. 375 Hopkinson
Ronkin, Samuel	Brooklyn, N. Y.	3467 Chestnut St.
Ross, Nelson Carlyle	Rochester, N. Y.	3942 Pine St.
Rowe, Murray Everton	Concord, N. H.	3706 Spruce St.
Salmon, Russell Owen	Port Jervis, N. Y.	3800 Locust St.
Salomon, Milton	Brooklyn, N. Y.	3467 Chestnut St.
Samuels, Clayton Harry	Philadelphia	1511 W. Susquehanna Ave.
Scheps, Gerson	Elizabeth, N. J.	3467 Chestnut St.
Schleede, Walter Christian	Ulster Park, N. Y.	3803 Spruce St.
Schneyer, Benjamin	Philadelphia	7416 Buist Ave.
Scull, Raymond William Tobias	Lancaster	3800 Locust St.
Seibert, Charles George	Bloomfield, N. J.	4039 Chestnut St.
Shawmut, William Moses	Everett, Mass.	3467 Chestnut St.
Shea, Walter Joseph	Hoosick Falls, N. Y.	639 S. Conestoga St.
Silva, Antonio	Cabo Rojo, Porto Rico	266 S. 38th St.
Silverman, Leo Reuben	South Bethlehem	5910 Addison St.
Skeffington, Mark John, Jr.	Philadelphia	1838 N. 11th St.
Smith, George Allen	Meriden, Conn.	3723 Spruce St.
Smith, Kenneth Smedley	Philadelphia	5109 Chester Ave.
Smith, Victor Hugo	Seattle, Wash.	5241 Walnut St.
Sneidman, Earle	Philadelphia	5801 Chestnut St.
Snyder, Samuel	do.	1743 W. Cumberland St.
Sprafkin, Rubin	New York, N. Y.	678 May St.
Stannard, Andrew Mackie	Jersey City, N. J.	4039 Chestnut St.
Stout, Earl William	Renova	3727 Spruce St.
Sullivan, Samuel Francis	Stroudsburg	Dorm. 24 Graduate
Taylor, John Raymond	Hazleton	4027 Locust St.
Taylor, Reginald Thorne	Astoria, L. I., N. Y.	Dorm. 354 Class '87
Taylor, Robert Cowles	Newport News, Va.	3912 Spruce St.
Thompson, Ronald Lloyd	Bloomfield, N. J.	3745 Locust St.
Tomsuden, Louis Ernst	Brooklyn, N. Y.	Dorm. 377 Hopkinson
Towey, Hugh Ignatius	Newark, N. J.	3952 Pine St.
Traurig, Max	do.	3467 Chestnut St.
Trevaskis, Lester Phillips	Freeland	Dorm. 30 Wilson
Turrentine, Julian Archalus	Saugerties, N. Y.	113 S. 38th St.
Van Horn, Dallas McHenry	Churchville, N. Y.	3803 Spruce St.
Van Valey, Edwin Glazier	Walton, W. Va.	3800 Locust St.

\*Withdrawn.

NAME.	RESIDENCE.	CITY ADDRESS.
Viverito, Joseph Aloysius	Brooklyn, N. Y.	Dorm. 45 Bodine
Waas, Clifford Jacob	Hammonton, N. J.	[115 Central Ave.]
Wachter, Joseph Louis	Troy, N. Y.	4048 Walnut St.
Walker, Milton Avory	Millville, N. J.	Dorm. 22 Morgan
Warshawsky, Charles Lincoln	Newark, N. J.	Dorm. 333 Franklin
Waterhouse, Robert Gordon	Pasadena, Cal.	3912 Spruce St.
Weinstein, Marcy	New York, N. Y.	Dorm. 51 Rodney
Westcott, Wilbert, Jr.	Perth Amboy, N. J.	Dorm. 53 Coxe
Weysser, Robert Eugene Gallus	Mauch Chunk	3702 Spruce St.
Williams, Oscar	Nanticoke	436 S. 40th St.
Wilson, Ervin Henry	Piercefield, N. Y.	210 S. 36th St.
Wilson, John Henry	Salt Lake City, Utah	3800 Locust St.
Winslow, William Walter	Philadelphia	5241 Walnut St.
Winter, Gordon Richmond	Port Dickinson, N. Y.	232 S. 38th St.
Wolff, Sidney David	Kingston, N. Y.	3803 Spruce St.
Yetter, Edgar Stayer	Sharon Hill	[103 Clifton Ave.]
Yost, Henry Stewart	Reading	3943 Locust St.
Youakim, Tewfick	Cairo, Egypt	4207 Chestnut St.
Zabel, John Frederick, Jr.	Rochester, N. Y.	254 S. 38th St.
Zerfing, Louis William	Philadelphia	4718 Chester Ave.

**FIRST YEAR CLASS.**

Adams, Bertram	Cape Town, S. Africa	1832 S. Logan Sq.
Ainsworth, Walter Lewis	Cape Vincent, N. Y.	109 S. 40th St.
Apfelbaum, Martin	Philadelphia	2711 Girard Ave.
*Armbrrecht, Edward Charles	Wheeling, W. Va.	Dorm. 21 Wilson
Bagley, Michael Aloysius	Carbondale	3727 Spruce St.
*Bambrick, Harry Charles	Girardville	[803 Sangor St., Crescentville]
Barmash, Jacob Daniel	Philadelphia	1818 S. 8th St.
Bayne, William McIntyre	do.	2450 Tulip St.
Bebelheimer, Bruce Gray	Port Carbon	3805 Spruce St.
Beckman, David Jacob	Philadelphia	1015 W. Thompson St.
Beckwith, Saul Raymond	New Britain, Conn.	Dorm. 439 Hopkinson
Bedell, Walter Reynolds	Poughkeepsie, N. Y.	Dorm. 24 Bodine
Berdofsky, Louis Joseph	Wallingford, Conn.	4134 Market St.
Bigham, Reginald Bernard	Watertown, N. Y.	Dorm. 14 Cleemann
Black, Frederick Wilbur	Bluefield, W. Va.	107 S. 40th St.
Blecher, Dorsey Benton	Middletown	1222 Wyoming Ave.
Blumenthal, Louis	Paterson, N. J.	Dorm. 375 Hopkinson
Boffa, William	Philadelphia	3131 Tilton St.
Borish, Abraham Israel	do.	1142 Jackson St.
Borja, Jose Alfonso	Ahuachapan, Salvador, C. A.	3331 Walnut St.
Brenner, Joseph Samuel	Philadelphia	515 Pine St.
*Breslin, John Anthony	Lansford	4025 Locust St.
Burns, Walter Francis	Orange, N. J.	230 S. 38th St.
Burns, William McGill	Shelter Island, N. Y.	3737 Locust St.
Catlin, Howard Atherton	Wellsboro	3939 Pine St.
Clark, Joe Kerr	Bayonne, N. J.	202 S. 37th St.
Cohen, Michael Joseph	Brooklyn, N. Y.	3430 Sansom St.
Crandall, Howard	Oswego, N. Y.	3707 Walnut St.
Crosman, Philip Chandler	Lancaster, N. H.	Dorm. 20 Provost Tower
Davenport, Clyde Arthur	Binghamton, N. Y.	3733 Spruce St.
Delmonico, Alfred Earnest	Syracuse, N. Y.	263 S. 38th St.
De Van, Muller Myron	Newark, N. J.	4043 Locust St.
Devlin, John Kane	Sharon	Dorm. 54 Provost Tower
Diamond, Simon Bernard	Philadelphia	3950 Pine St.
Diller, Edgar Isaiah	New Oxford	3720 Locust St.

\* Withdrawn.

NAME.	RESIDENCE.	CITY ADDRESS.
Dolak, John Paul	Lansford	4025 Locust St.
Donahue, Raphael Augustus	New Brunswick, N. J.	3719 Spruce St.
Dowd, Francis Erwin	Rome, N. Y.	3721 Locust St.
Duarte, Horace	San Cristobal	
	Venezuela, S. A.	3331 Walnut St.
Eger, William R.	Schenectady, N. Y.	3723 Spruce St.
Evans, Charles Raymond	Orwin	3943 Locust St.
Feder, Maurice Harold	Philadelphia	1914 S. 4th St.
Feerick, Patrick Joseph		
B.S. (Fordham)	New York, N. Y.	Dorm. 53 E. F. Smith
Feldman, Frank Philip	Philadelphia	427 Mifflin St.
Flacker, Joseph Abraham	do.	701 S. 16th St.
Fleisher, Louis Benjamin	do.	1103 South St.
Frank, Victor Harry	do.	6212 Ridge Ave.
Freedman, Harry	Parkston, N. Y.	3447 Woodland Ave.
Furst, Herman Fairchild	Newark, N. J.	3715 Locust St.
Garguilo, Dewey Dante J.	New Rochelle, N. Y.	Dorm. 41 Cleemann
Garrahan, James Elwood	Dallas	3720 Locust St.
Garretson, Edmund Bennett	Cape May Court House, N. J.	4027 Locust St.
Gelhaar, Harold Reid	Jersey City, N. J.	Dorm. 129 Craig
Glanckopf, Bernhard	Wilkes-Barre	3733 Locust St.
Glaser, Stephen Wilton	New York, N. Y.	The Swarthmore
Golove, Louis	Philadelphia	2412 N. 31st St.
Goodall, Robert Arthur	Cymbria Mines	3232 Lancaster Ave.
*Gow, Willard Archibald		
Ph.B. (Hamilton)	Fleischmanns, N. Y.	448 S. 43d St.
Granger, Lloyd Maceo	Newark, N. J.	3711 Aspen St.
Gross, Maurice Samuel	Philadelphia	46 S. 44th St.
Hanania, Elie David	New York, N. Y.	3812 Spruce St.
Harvey, Herman Singleton	Minersville	Dorm. 359 Craig
Heilbron, Julius Rene	Paramarico, Dutch Guiana	3719 Spruce St.
Helder, Rhea Mary	Reading	120 S. 34th St.
Herbine, Frederick Wayne	do.	3943 Locust St.
Hernandez, Ricardo Jorge	Santurce, Porto Rico	266 S. 38th St.
Hillegass, Clarence Wolford	Allentown	3743 Spruce St.
Hodder, Everett Kenneth	Johnstown	3807 Spruce St.
Hodgins, Richard Stanley	Southhold, L. I., N. Y.	3737 Locust St.
Hopf, Rudolph Albert	Elizabeth, N. J.	230 S. 38th St.
Howland, Wells	Philadelphia	13 S. 44th St.
Hummel, Joseph Tilghman	Allentown	3733 Spruce St.
Hurt, James Henry, 3d	Ridley Park	[21 W. Sellers St.]
Ilkowitz, Milton	Newark, N. J.	3703 Locust St.
Jaco, George Conn	Uniontown	Dorm. 33 Thomas Penn
Jacobs, Rudolph Alfred	Brooklyn, N. Y.	3645 Locust St.
Kabnick, Abraham Stuart	Glen Cove, L. I., N. Y.	3709 Chestnut St.
Kauffman, George Ellis	Waynesboro	202 S. 41st St.
Kearns, Edward Alexis	Paterson, N. J.	4029 Spruce St.
Kettenring, Alfred William	Athens, N. Y.	Dorm. 40 Birthday
Kobre, Benjamin	Brooklyn, N. Y.	3815 Spruce St.
Kohn, Isadore Julian	Philadelphia	738 Snyder St.
*Kratzert, Oscar Adolph	Woodlawn	Dorm. 151 New York
Kuss, Harold Ernest	Wilkes-Barre	3801 Spruce St.
Laird, Thomas Weber	Lewistown	3714 Locust St.
Large, Charles Hubert	Pittsburgh	4650 Hazel Ave.
Lasday, Isador Allen	Munhall	Dorm. 41 Birthday
*Lenahan, Stephen White	Wilkes-Barre	4013 Locust St.
Lockwood, Nelson Wesley	East Orange, N. J.	Dorm. 25 Morris

\*Withdrawn.



NAME.	RESIDENCE.	CITY ADDRESS.
Luca, William Peter	Woodhaven, L. I., N. Y.	Dorm. 59 Coxe
Lufburrow, Benjamin Burdge	Keyport, N. J.	Dorm. 45 Provost Tower
Lutz, Frank Edward	Riverhead, L. I., N. Y.	3269 Sansom St.
MacConnell, Everett Lex	Glenolden	[100 Chester Ave.]
McDuffee, Harold Ford	Claremont, N. H.	107 S. 40th St.
McGranaghan, Jerome Wilfrid	Hancock, N. Y.	109 S. 40th St.
Mackin, Charles Edward	Retreat	436 S. 57th St.
Makin, Fred Davis, Jr.	Point Pleasant, N. J.	4027 Chestnut St.
Malamadson, Manuel Jacob	Philadelphia	1352 Bainbridge St.
Manheimer, Jerome Edward	New York, N. Y.	Dorm. 33 Bishop White
Manning, William Perry	Philadelphia	1327 Morris St.
Matthews, Donald Hamilton	Johnstown	Dorm. 23 Bishop White
Mesjian, Harry Armen	Philadelphia	128 S. 53d St.
Milgram, Jacob Joseph	do.	1956 Dalkeith St.
Miller, George William	Palisades Park, N. J.	Dorm. 12 Rodney
Moloney, William Ryan	Paterson, N. J.	Dorm. 205 Leidy
Mooney, Archibald Francis	Brooklyn, N. Y.	4027 Chestnut St.
Mora, Ramon Eugenio	Las Tablas, Panama	3331 Walnut St.
Mullen, James Hayes	Holyoke, Mass.	Dorm. 34 Mask and Wig
Myers, Jacob Mindermann	Hanover	3720 Locust St.
*Navarro, Julio Humberto	Guyaquil, Ecuador, S. A.	3712 Spruce St.
O'Connor, Walter Harrison	Jamaica, L. I., N. Y.	230 S. 38th St.
O'Grady, John Austin	Paterson, N. J.	Dorm. 205 Leidy
O'Leary, Joseph Timothy	Girard	3723 Locust St.
Oblatt, George Dewey	New York, N. Y.	370 Hopkinson
Orth, Emil Jacob	Union, N. J.	3911 Woodland Ave.
*Osmond, James Franklin, Jr.	Ardmore	[26 Wyoming Ave.]
Parcher, Henry Herbert, Jr.	Philadelphia	4836 Cedar Ave.
Peachey, George Fuller	Bradford, England	Dorm. 415 Franklin
Pearce, William Morgan, Jr.	Manasquan, N. J.	Dorm. 32 E. F. Smith
Perkins, James Joseph	Lake Placid, N. Y.	3719 Locust St.
Perry, William	Philadelphia	3604 Locust St.
Pious, William	Bridgeport, Conn.	3603 Sansom St.
Pittenger, Willard Osborn	Asbury Park, N. J.	Dorm. 32 E. F. Smith
Plump, Ellsworth Brun	Astoria, L. I., N. Y.	Dorm. 51 E. F. Smith
Popkin, Nathan	Trenton, N. J.	3700 Locust St.
Price, Wayne Byrd	Parsons, W. Va.	4041 Locust St.
Protass, Harry	New Britain, Conn.	3260 Sansom St.
*Quigley, William Andrew	Beverly, Mass.	3539 Locust St.
Raw, David	Trenton, N. J.	Dorm. 378 Hopkinson
Reiter, Harry	Newark, N. J.	2843 Ridge Ave.
Ribolla, Louis Nicodemi	Palermo, Italy	4027 Locust St.
Rice, Frank Wilden	Passaic, N. J.	1217 N. 56th St.
Robinson, Stanford Ashbrooke	Green Creek, N. J.	3815 Spruce St.
Rochlin, Jacob	Passaic, N. J.	1434 N. 18th St.
Rogers, Charles Dewey	Philadelphia	3727 Locust St.
Roth, Philip Charles	Newark, N. J.	3812 Spruce St.
Rudnick, Jacob	Keyport, N. J.	Dorm. 110 Franklin
Ryan, Walter Leo	Rensselaer, N. Y.	4019 Locust St.
Sammis, Russell Warren	Huntington, L. I., N. Y.	3719 Locust St.
Saso, Samuel Joseph	Lock Haven	[1812 W. 3d St.]
Savits, Frank	Chester	Dorm. 27 Morgan
Schaefer, Martin	Brooklyn, N. Y.	733 S. Frazier St.
Schlossbach, Edward	Freehold, N. J.	Dorm. 57 Memorial Tower
Schock, Paul Reinsel	Hamburg	Dorm. 52 Provost Tower
Schock, William Nathan	do.	Dorm. 52 Memorial Tower
Scholl, Carle Henry	Reading	

\* Withdrawn.



# STUDENTS

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NAME.	RESIDENCE.	CITY ADDRESS.
Schulman, Newton David	Brooklyn, N. Y.	3815 Spruce St.
Schutt, Merton Knight	Rochester, N. Y.	217 S. 33d St.
Schwingen, William Benjamin	Wilkes-Barre	3803 Spruce St.
Scott, Thomas Alexander	Jersey City, N. J.	3707 Walnut St.
Shuman, Earl Arno	Philadelphia	705 Vernon Road
*Silva, Alfredo	Guatemala City, Guatemala, C. A.	3256 Chestnut St.
Singer, Samuel, Jr.	Keyport, N. J.	3812 Spruce St.
Sloman, David	Norwalk, Conn.	3603 Sansom St.
Slover, Samuel Willis	South Amboy, N. J.	Dorm. 46 Rodney
Slutsky, Abraham Hyman	Cedar Rapids, Iowa	3702 Locust St.
Smith, Carlton Sinclair	Glen Cove, N. Y.	3715 Locust St.
Sterling, Isador	Philadelphia	4046 Market St.
Stinson, George Oswald	Brooklyn, N. Y.	4027 Chestnut St.
Uehlein, Frank Matthew, Jr.	Passaic, N. J.	3727 Locust St.
Van Duine, Harold Anthony	Passaic, N. J.	do.
Van Eerde, William Egbert	Camden, N. J.	[540 Stevens St.]
Vaughn, LeRoy	Watervliet, N. Y.	260 S. 38th St.
Vinson, Allen Sanford	Newark, N. J.	Dorm. 31 E. F. Smith
Wagnetz, Edward	Haddon Heights, N. J.	
Ward, Charles Wesley	Southampton, L.I., N. Y.	Dorm. 432 McKean
Washburn, Wesley Wallace	Brooklyn, N. Y.	Dorm. 108 Leidy
Wein, Gustave Ferdinand	New York, N. Y.	Dorm. 40 Birthday
Zeisse, Karl Schneider	Philadelphia	[864 Wynnewood Rd.]
Zinman, Samuel	New Britain, Conn.	3260 Sansom St.
Zucker, Milton	Newark, N. J.	Dorm. 31 E. F. Smith

## SPECIAL STUDENTS.

Coughenour, Thomas Adams D.D.S. (Southwestern)	Salisbury, N. C.	3950 Pine St.
Hartley, Harry D.D.S. (Pennsylvania)	Narberth	[108 Forrest Ave.]
Henao, M. Jose Tomas D.D.S. (Pennsylvania)	Manizales, Colombia, S. A.	3717 Spruce St.
Kirstetter, Harry George	Philadelphia	2941 N. 6th St.
Rath, Walter Arthur	Brooklyn, N. Y.	3617 Locust St.
Rojas, M. Arturo Cirujano Dentista (Peru)	Iquitos, Peru	3835 Baring St.
Ros, Eligio Frederico, D.D.S. (Pennsylvania)	San José, P. R.	1421 Arch St.
Short, William Cecil	Easton	4039 Chestnut St.

## SUMMARY.

Students of the Third-Year Class.....	242
Students of the Second-Year Class.....	267
Students of the First-Year Class.....	171
Special Students.....	8

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\* Withdrawn.

**DENTAL GRADUATE SCHOOL—SESSION 1917-18.**

NAME.	RESIDENCE.	CITY ADDRESS.
Byrne, Alfredo Juan D.D.S. (Pennsylvania)	Olivos, Argentine, S. A.	261 S. 38th St.
Castro, Genesco de Oliveira Cirurgiao Dentista (Brazil)	Porto Alegre, Brazil	5600 Pine St.
Diaz, Ramon P. D.D.S. (Baltimore College of Dental Surgery)	Barceloneta, Porto Rico	3711 Walnut St.
Espinosa, Jorge G. Cirurgiao Dentista (Mexico)	Pachuca, Mexico	32 N. 40th St.
Hait, Russell Hull D.D.S. (College of Dental and Oral Surgery of New York)	Weehawken, N. J.	4039 Chestnut St.
Morrisette, Hubert Shelton D.D.S. (Baltimore College of Dental Surgery)	Norfolk, Va.	4039 Chestnut St.
Novaes, Sylvio Manoel Cirurgiao Dentista (Brazil)	Sao Paulo, Brazil	231 S. 40th St.
Sharp, Antonio Francesco DaCosta Ramos C.D. (Brazil) D.D.S. (Vir- ginia)	Sao Paulo, Brazil	3965 Pine St.
Sorgenfrei, Carl D.D.S. (Pennsylvania)	Syracuse, N. Y.	3745 Locust St.
Watson, Harry Douglas D.D.S. (Michigan)	Grand Rapids, Mich.	3727 Locust St.
Yasaki, Masakata D.D.S. (Tokyo), D.D.S. (Chi- cago College of Dental Sur- gery)	Naganoken, Japan	4426 Pine St.

## GEOGRAPHICAL SUMMARY OF DENTAL STUDENTS.

Argentina.....	1	Georgia.....	1	Ohio.....	3
Arizona.....	1	Germany.....	1	Oregon.....	1
Australia.....	5	Greece.....	1	Panama.....	4
Brazil.....	1	Guatamala.....	1	Pennsylvania....	255
California.....	1	Illinois.....	2	Persia.....	1
Canada.....	1	Indiana.....	1	Peru.....	1
Canary Islands...	1	Iowa.....	2	Porto Rico.....	6
Chile, S. A.....	2	Italy.....	3	Rhode Island....	1
China.....	1	Jamaica, B. W. I.	1	San Salvador....	1
Colombia, S. A...	2	Maine.....	8	South Africa....	1
Colorado.....	1	Massachusetts...	8	Tennessee.....	2
Connecticut.....	18	Montana.....	1	Texas.....	1
Delaware.....	1	Nebraska.....	1	Utah.....	4
Dist. of Columbia	1	New Hampshire..	3	Venezuela.....	1
Dutch Guiana...	1	New Jersey.....	125	Vermont.....	2
Ecuador.....	1	New York.....	184	Virginia.....	2
Egypt.....	1	Nicaragua.....	2	Washington.....	3
England.....	4	North Carolina..	2	West Virginia....	6
France.....	1	Norway.....	1		
				Total.....	688

## STUDENT DENTAL SOCIETIES.

The JAMES TRUMAN, EDWIN T. DARBY, EDWARD C. KIRK Dental Societies and MATTHEW H. CRYER Oral Surgical Society, were organized for mutual benefit in the study of Dentistry and Oral Surgery, as a means of training in the management of dental professional organizations, to foster the spirit of individual investigation and research, and to promote social intercourse and good fellowship among the members. Every member of the Societies in good standing, on graduating from the School of Dentistry, receives a certificate. Regular meetings are held every two weeks during the session.

SOCIETY OF THE ALUMNI OF THE SCHOOL OF  
DENTISTRY.

*President.*—Dr. Alfred P. Lee.

*Vice-Presidents.*—Dr. Walter F. Barry, Dr. Emerson R. Sausser,  
Dr. William L. MacDonnell.

*Secretary-Treasurer.*—Dr. Charles W. Swing, now Capt. D. R. C.

Dr. Z. J. Jackaway, *Acting*,  
1506 E. Susquehanna Ave., Philadelphia.

Every graduate of the School of Dentistry in good standing is considered to be a member of this Society, and will be sent bills for dues. Any member who shall for five years pay into the treasury the sum of three dollars annually, can, by payment of \$1.50, secure a membership certificate.

The annual meeting is held on the Friday previous to Commencement, and is followed in the evening by a collation.

*Alumni are requested to send to the Secretary notice of change of residence, or other information likely to be of service to the Society.*

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HOUSTON HALL.

Houston Hall is the home of the Houston Club to membership in which any member of the University is eligible.

Its purposes are to provide for the students a place where all may meet socially on common ground, and to furnish every available facility for healthy recreation and amusement in leisure hours. The equipment of the Hall includes a reading-room, with a large number of periodicals and newspapers; smoking-rooms, billiard and pool tables, tables for chess and checkers, a correspondence room; athletic trophy rooms; a large auditorium with grand organ; rooms for the University papers and other organizations; a dark room for amateur photographers and many other rooms for general purposes.

The Christian Association, which has its headquarters in Houston Hall, is prepared to furnish prospective students, through its Secretary, full information with regard to the various undergraduate social activities, both secular and religious.



## DEGREES.

At a Public Commencement held Wednesday, June 20, 1917, at the Metropolitan Opera House, the Degree of Doctor of Dental Surgery was conferred by EDGAR F. SMITH, Chem.D., Sc.D., L.H.D., Provost, upon the following candidates:

NAME.	RESIDENCE.	STATE.
*Aiguier, James Edward	New York	New York
Algase, Charles Guy	Philadelphia	Pennsylvania
Allison, John Joseph	Middletown	Connecticut
Altman, Julius	Philadelphia	Pennsylvania
Asprey, William Joseph	Orange	New Jersey
Baldwin, Stanley Hanford	Norwalk	Connecticut
*Bastian, Carlisle Clarence	Sydney	Australia
Baumgarten, Maurice Sigmund	Passaic	New Jersey
Baylinson, Myer	Atlantic City	do.
Beachler, Robert Bridenbaugh	Greenville	Pennsylvania
Becker, DeForest	Berne	New York
Beddoe, Edward Allen	Scranton	Pennsylvania
Bender, John Harry	Ashland	do.
Benson, Elmer Manly	Providence	Rhode Island
Blakeman, Leslie Suter	Mt. Vernon	New York
Blumberg, Leonard Saul	Philadelphia	Pennsylvania
Bordner, Robert Simon	Collegeville	do.
Bozorth (Mrs.), Jessica Longsdorf	Bryn Mawr	do.
Breisch, Leigh Hedwig	Ringtown	do.
Briggs, Thomas Lacy, Jr.	Chester	do.
Brown, Ernest Norman	Brisbane, Queensland	Australia
Brown, George Cowles	Bridgeport	Connecticut
Burns, Hugh Regius	Hazelton	Pennsylvania
Byrne, Alfredo Juan	Olivos, Argentina	South America
Byrnes, Joseph Francis	Waterbury	Connecticut
Cadwallader, Charles	Madrid	Spain
Callahan, Vincent Daniel	Middletown	New York
Campbell, Harry Clay	Llanerch	Pennsylvania
Campbell, John B.	New York	New York
Clark, Horace Gerard	Philadelphia	Pennsylvania
Clark, Raymond Kenneth	Morristown	New Jersey
Collie, Warren Hale	West Palm Beach	Florida
*Corby, Arthur Edward	Hackensack	New Jersey
Cornish, Edwin Russell	Philadelphia	Pennsylvania
Coverley-Smith, William Joseph	Edinburgh	Scotland
Crane, Frank Alf	Pullman	Washington
Cullen, Francis Joseph	Scranton	Pennsylvania
Cunning, Francis Courtland	Troy	New York
Currie, Waldo Reynolds	Woodstock, N. B.	Canada
Daugherty, Paul Rees	Altoona	Pennsylvania
Davidson, William Thompson	Philipsburg	do.
Deegan, Harry William	Shelton	Washington
DeWitt, Robert Almon	Scranton	Pennsylvania

\* With Honors.

NAME.	RESIDENCE.	STATE.
Diaz, Manuel Maria	Panama	Rep. of Panama
Donnelly, Francis Edward	Honesdale	Pennsylvania
Donovan, Harry W.	Kingston	New York
*Dowd, John Luke, Jr.	Rome	do.
Dundon, Walter Brown	Binghamton	do.
Dunn, Frank Joseph	Poughkeepsie	do.
Ehrle, Frederick Charles	Syracuse	do.
Ernst, Frank James	St. Mary's	Pennsylvania
Evans, David Haydn	Blossburg	do.
Even, Charles Pierre Marie Alphonse	Paris	France
Fagan, George Raymond	Utica	New York
Favero, Edward	Brooklyn	do.
Federman, Albert Gillis	Chester	Pennsylvania
Fielding, Richard Starbuck	Glens Falls	New York
Fischer, Herbert Louis	Philadelphia	Pennsylvania
Fischwenger, Henry Rheinfrank	Jamaica	New York
Fleischer, Morris Bernard S.	New York	do.
Foley, Eugene	Freehold	New Jersey
Forman, Edward Elihu	Philadelphia	Pennsylvania
Frankel, Jules	West Pittston	do.
Fricke, Albert Theodore, Jr.	Bridgeport	Connecticut
Friend, Edgar Vail	Middletown	New York
Gallegos, Gonzalo Joseph	San Jose	Costa Rica, C. A.
Gardiner, Robert Nelson	Columbia	South Carolina
Geisenhoner, Albert Louis	Schenectady	New York
George, Chalmer Lee	Salem	Oregon
Giammattei, Domingo Porfirio	Santa Ana, Salvador	Central America
Gingenbach, Walter Scott	Erie	Pennsylvania
Gorman, Philip Joseph	Hazleton	do.
Gould, Frank Robling	Scranton	do.
Gould, Roland Gavitt	Mt. Vernon	New York
Gray, James Loller	Millville	New Jersey
Gray, Robert Gurley	Syracuse	New York
*Greene, John Harold	Hamilton	do.
Griffin, Timothy James	South Hadley Falls	Massachusetts
Grimm, Theodore Herbert	Newark	New Jersey
Guilfoyle, Arthur William	Syracuse	New York
Hadley, Arthur Hallam	Holly	Michigan
Hall, John Henry	Taunton	Massachusetts
Hall, Wilfred	South Millbrook	New York
Haman, Guy Louis	Reading	Pennsylvania
Hammond, Beecher Freeman	Lake George	New York
Harley, William Wallace	Hammonton	New Jersey
Harris, Leon Harold	Syracuse	New York
Harris, Manville Samuel	do.	do.
Harter, George Talbott	Rochester	do.
Henao, M. José Tomas	Manizales, Columbia	South America
Henderson, Charles Clinton	Troy	New York
Heverin, John Joseph, Jr.	Brooklyn	do.
Hille, Hans Carl Frederick	River Edge	New Jersey
Hittinger, Francis Russell	Easton	Pennsylvania
Hochstrasser, Chester Arthur	Berne	New York
Hodgkins, Burton Linwood	Eden	Maine
Hogue, Herbert McDowell	Philadelphia	Pennsylvania
Holzman, William Victor	Brooklyn	New York

\* With Honors.

NAME.	RESIDENCE.	STATE.
Howe, Carl Freeman	Ithaca	New York
Hudson, William Campbell	Yonkers	do.
Hurff, Russell Ballenger	Bridgeton	New Jersey
Hussey, George Augustine, Jr.	Bristol	Pennsylvania
Hutchinson, Carl Duncan	Augusta	Maine
Hyland, Edward Aloysius	Utica	New York
Hynard, William Henry	Warwick	do.
Ibanez, Hernando	Quibdo, Columbia	South America
Iguina, Manel Alberto	Rio Piedras	Porto Rico
Jackson, Wesley Lyttle T.	Clinton, Ont.	Canada
Jamison, Francis Trevanion	Wrightsville	Pennsylvania
Johnson, Clarence Edwin	Philadelphia	do.
Johnson, Frederick Heppie	Freeland	do.
Jones, Edward Ferdinand	Sea Bright	New Jersey
Kalison, Samuel	Brooklyn	New York
Kane, Myer Morris	Carmel	New Jersey
Keenholts, Raymond	Schenectady	New York
Kelly, George Miller	Clayton	do.
Kent, Warren Hamilton	Trenton	New Jersey
Kistler, John William	Tamaqua	Pennsylvania
Klie, George Dietrich	Weehawken	New Jersey
Klund, Jacob Edgar	Philadelphia	Pennsylvania
Knebelman, Abraham	Nicolaeff	Russia
Koob, Arthur Stanley	Brooklyn	New York
Krall, Michael	New Haven	Connecticut
Kuhlmann, George Henry	Nanticoke	Pennsylvania
Kutikoff, Gamshei	Bobruisk	Russia
Landry, Philip Joseph	Saratoga Springs	New York
Lindemuth, C. Lloyd	Middletown	Pennsylvania
Lindsay, Edgar Wright	Ironton	Ohio
Looney, Edward Carroll	Morristown	New Jersey
Lopez, Jose Ramon	Guatemala City	Guatemala, C. A.
Lorenz, Harry Bernard	Tremont	Pennsylvania
Loveridge, Leonard Ellis	Oil City	do.
Lumis, Thomas William	West Chester	do.
Luntz, Benjamin	East Hampton	Connecticut
Lutz, William Raymond	Trenton	New Jersey
McCarthy, Paul Joseph	Limestone	New York
McCloskey, Eugene Augustine	Hawley	Pennsylvania
McGuire, Frank Thomas	Dunmore	do.
McQuillan, David Paul, Jr.	Royersford	do.
McWilliams, Thomas Peter	Scranton	do.
MacDonnell, William Leo	Hamilton	New York
Mackie, Sumner Whiting, Jr.	Albany	do.
Macmillan, Arthur S.	Jersey City	New Jersey
Mann, Morris Townsend	Brockport	New York
Margulies, Irving	Brooklyn	do.
Markham, Glenn Haskell	Clinton	do.
Marks, Louis	Philadelphia	Pennsylvania
Matera, Thomas Joseph	Brooklyn	New York
Mathews, Howard King	Philadelphia	Pennsylvania
Monroe, George Blaine	East Emporium	do.
Moody, Charles Aston	St. Andrew	Jamaica, B. W. I.
Morgan, Allie Green	Newport News	Virginia
Mulholland, Robert Emmett	Long Branch	New Jersey
Murray, William Graeme	Herkimer	New York
Muyskens, William Roggen	Alton	Iowa
Nathan, Jane	Johannesburg	South Africa

NAME.	RESIDENCE.	STATE.
Nelson, Louis Mickelsen	Gardnerville	Nevada
Neuber, Augustave, Jr.	Schenectady	New York
Newton, Maurice	Trenton	New Jersey
Novack, Samuel	Philadelphia	Pennsylvania
O'Brien, Philip Sheridan	Brooklyn	New York
*Odell, Elmer Ellsworth	New York	do.
Parlow, Clarence Elliott	Adams	do.
Pasch, Frederick Theodore	Brooklyn	do.
Philips, Charles Ferg	Minersville	Pennsylvania
Porias, Julius Louis	Johnstown	do.
Potter, Roger Whitney	New Canaan	Connecticut
Radin, Moe Morris	Newark	New Jersey
Reading, John Philip	Kingston	New York
Rich, Morris	Blackville	South Carolina
*Robinson, Abram	Albany	New York
Roohan, Leo Ward	Saratoga Springs	do.
Rosenstengel, Bernard Leo	Toowoomba, Queens- land	Australia
Rosser, Eli Bruce	Kingston	Pennsylvania
Roth, Benjamin	Trenton	New Jersey
Ruttenberg, Max	Camden	do.
Scanlan, Edward Dennis	Schenectady	New York
Schupack, Esther	Philadelphia	Pennsylvania
Schwartz, Moses	Newark	New Jersey
Scudder, Lawrence Charles	Northport, L. I.	New York
Shanahan, Oliver Anson	Sprague	Washington
Shapiro, Philip Lewis	Glens Falls	New York
Sharpe, Herman	Philadelphia	Pennsylvania
Shaw, Robert Miller	Springfield	Massachusetts
Silverman, Lawrence William	Syracuse	New York
Slocum, Stanley Eldon	Long Branch	New Jersey
Solomon, Jacob	Perth Amboy	do.
Stanio, James Nicholas	New Haven	Connecticut
Starr, Roy Carl	Topeka	Kansas
Strickhouser, Rodger Chronister	York	Pennsylvania
Sturridge, Frank Alexander Leslie	London	England
Sullivan, Joseph James	Lestershire	New York
Sweeney, John Edward	Allegany	do.
Swigler, Adam William	Lansdowne	Pennsylvania
Taylor, Henry Kroehl	Asbury Park	New Jersey
*Thiede, Henry August	Rochester	New York
Tiley, Charles Anderson	Essex	Connecticut
Tompkins, Frederick Merle	New Haven	do.
Toro, Julio Alberto	Ponce	Porto Rico
Trebing, Carl Edward, Jr.	Camden	New Jersey
Tucker, Francis de Sales	Overbrook	Pennsylvania
Vickers, William Vincent	Syracuse	New York
Vreeland, Fred Douglas	Easton	Pennsylvania
*Wagner, Herman Lee	Lewistown	do.
Wald, Alfe Gilbert	Philadelphia	do.
Walkerman, Ray Joseph	Jamestown	New York
Warren, George Emmett	Marlboro	do.
Warren, George Peirce	Swarthmore	Pennsylvania
Wartel, Harry	Philadelphia	do.
*Watson, Howard Clarence	Bayonne	New Jersey
Weisman, Simon Sidney	Newark	do.

\* With Honors.



NAME.	RESIDENCE.	STATE.
Wheeler, Sperry Giles	East Bloomfield	New York
Witz, Louis	New Haven	Connecticut
*Yoder, Maurice Barto	Kutztown	Pennsylvania
Zeve, Harry Leopold	Youngstown	Ohio
Zimmerman, David Ellis	Annville	Pennsylvania
Total.....		216

In University Council, February 22, 1917.

*Doctor of Dental Surgery*

Baldwin, Ralph Stanley.....	as of the Class of 1916
Greenstein, Morris.....	" " " " 1916
Kline, William Albert.....	" " " " 1916
Quentzer, Hadar Bertil.....	" " " " 1916
Schreiber, George Joseph.....	" " " " 1916

\* With Honors.

